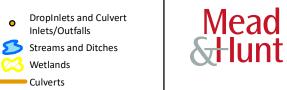




- GPS Collection Point
- ORD Property Boundary
- Upland Datapoint
- Wetland Datapoint Supplemental Datapoint
- 000 Photo Locations



Elgin O'Hare Western Access

Project (EOWA Project)

DELINEATED WATERS OF THE UNITED STATES 2019

CHICAGO O'HARE INTERNATIONAL AIRPORT

SOURCE: ORTHOIMAGERY, DIGITALGLOBE, JULY 2018.

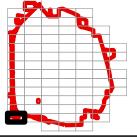
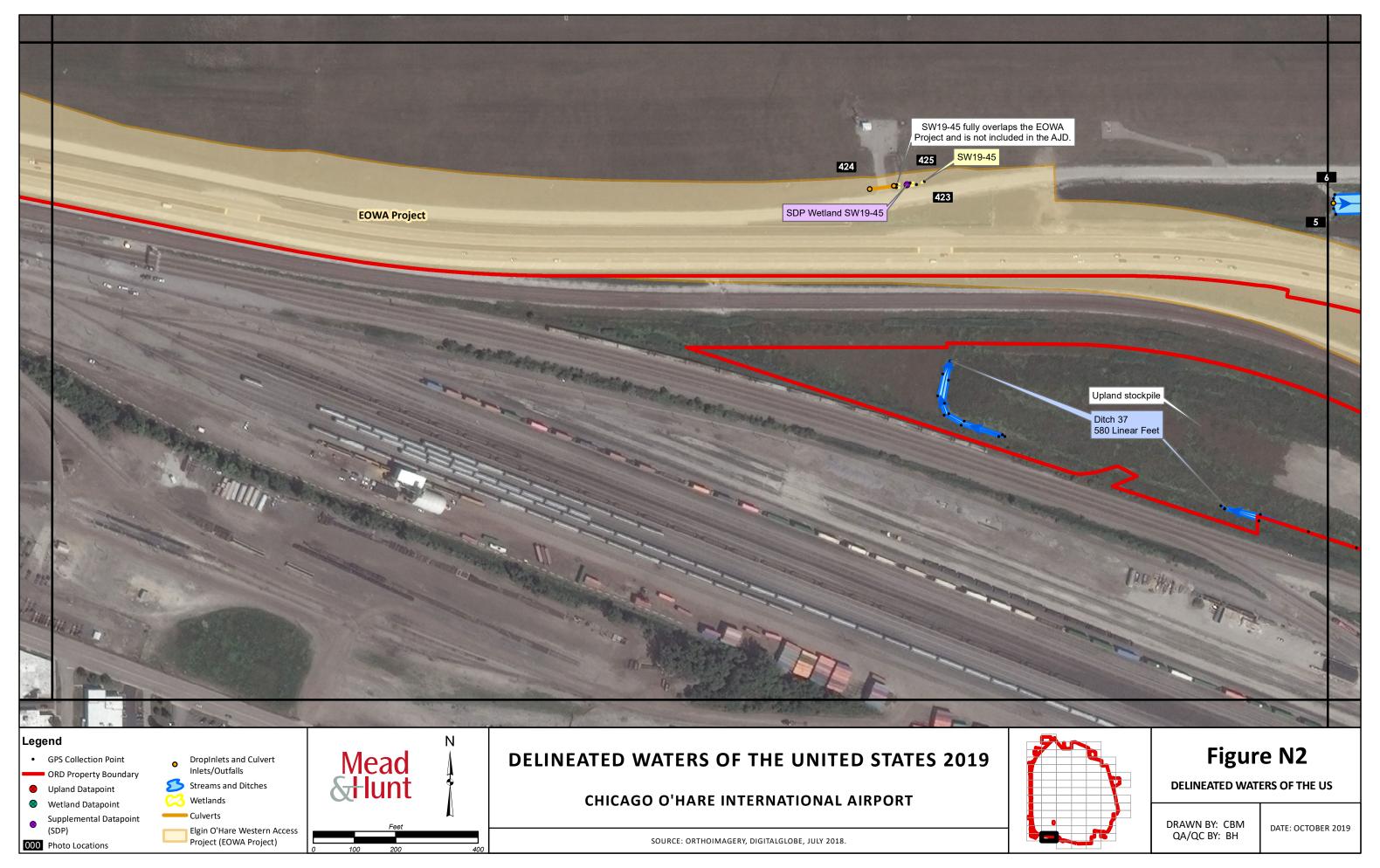


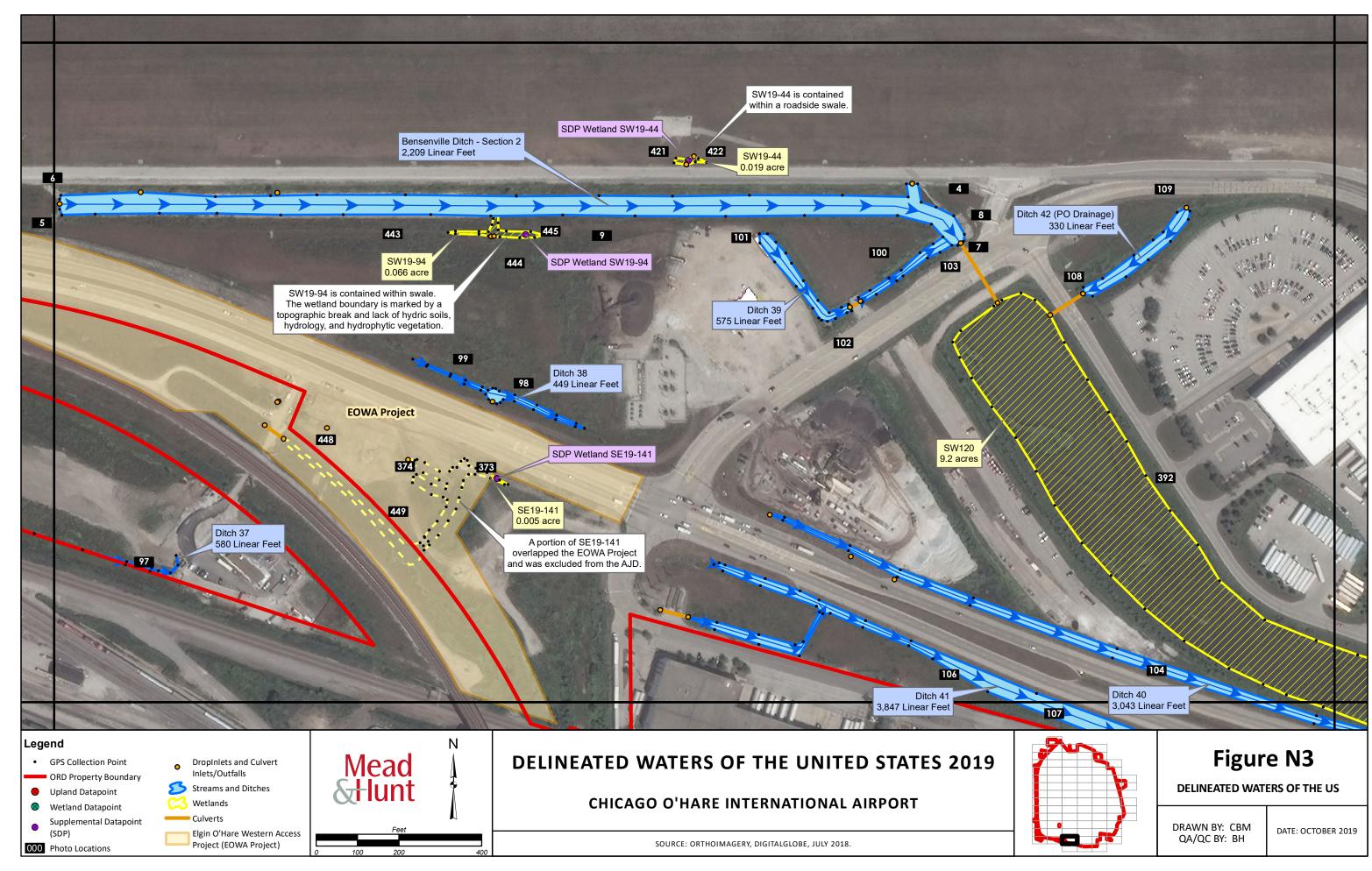
Figure N1

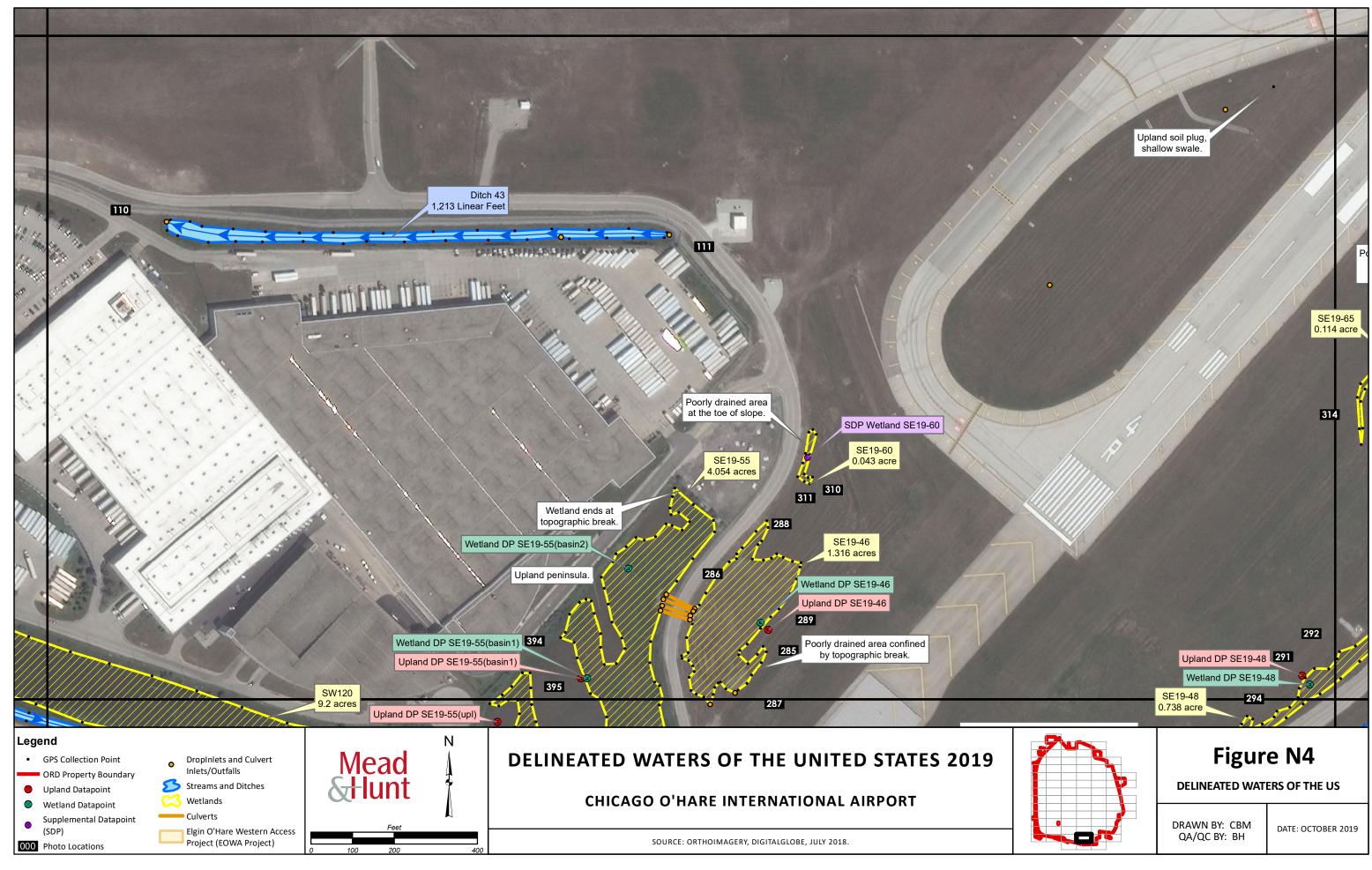
DELINEATED WATERS OF THE US

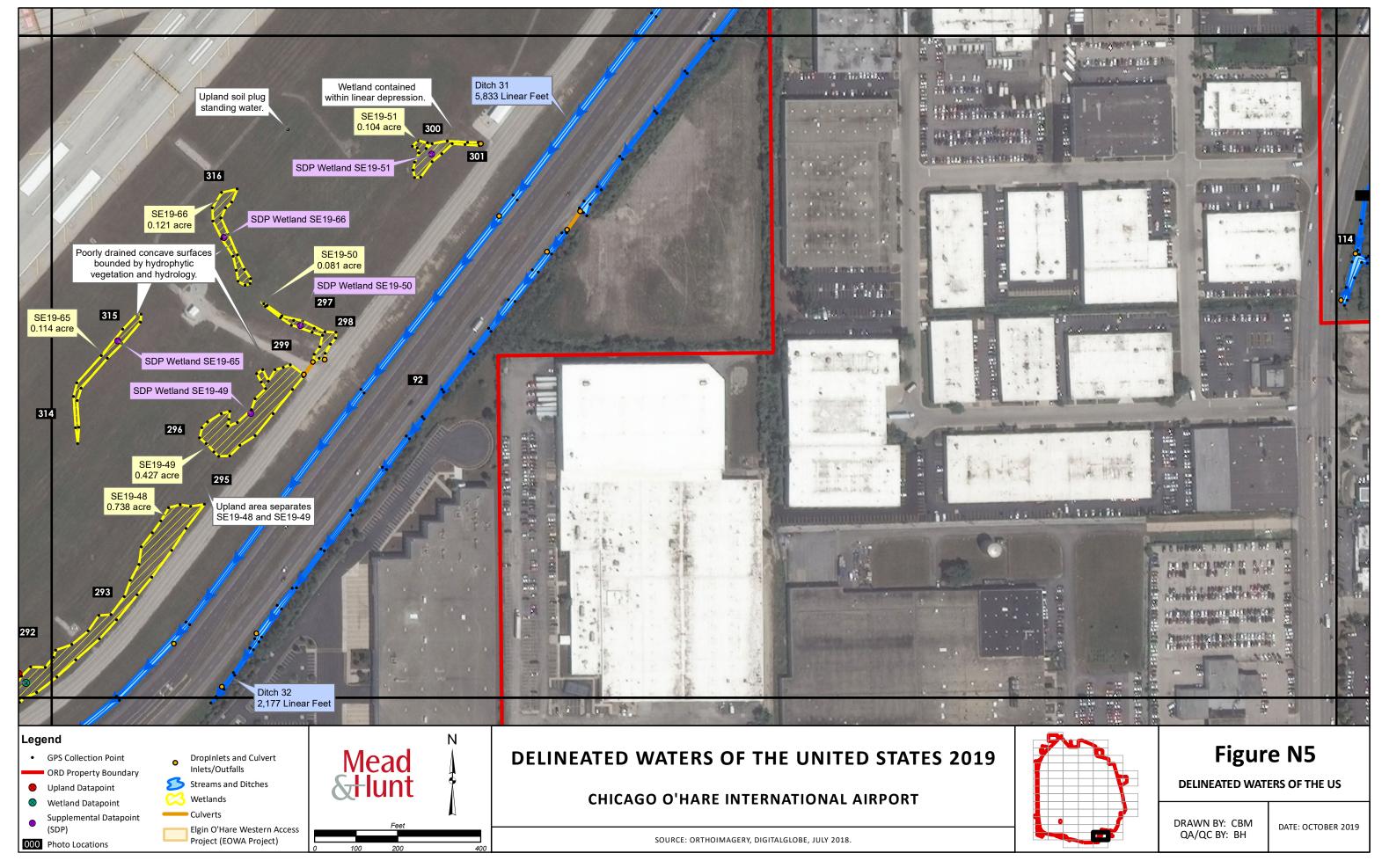
DRAWN BY: CBM QA/QC BY: BH

DATE: OCTOBER 2019

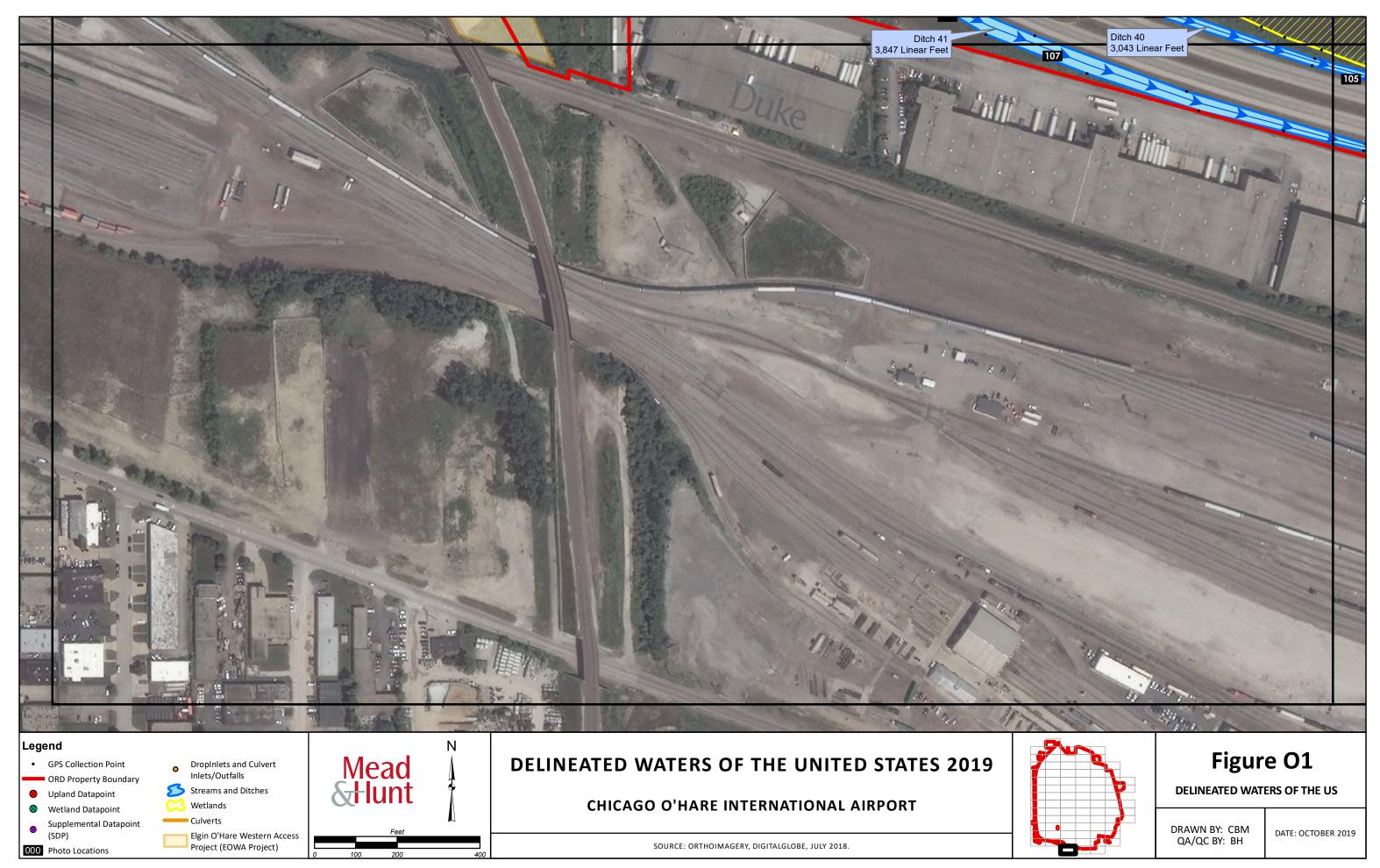


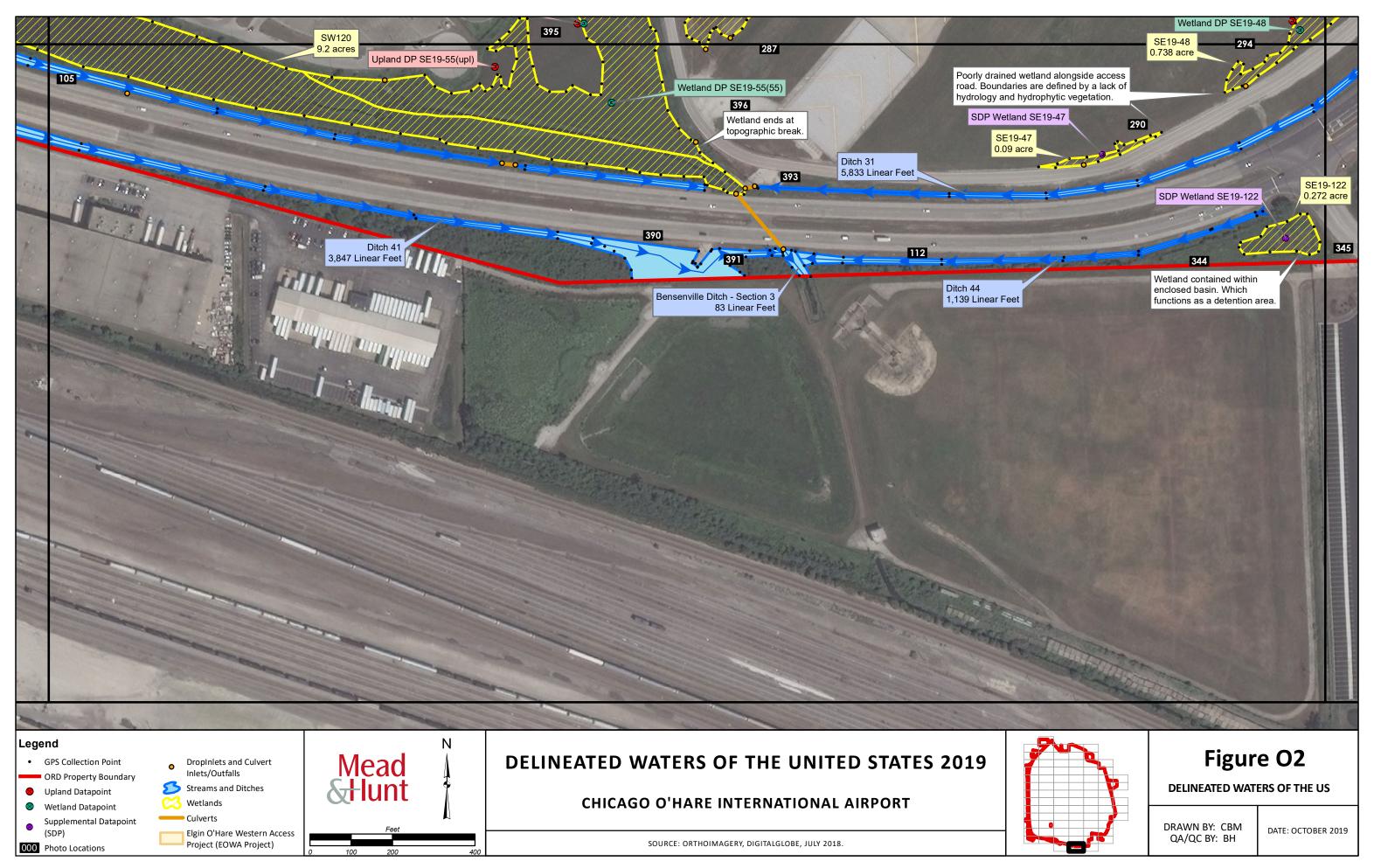














- GPS Collection Point
- ORD Property Boundary
- Upland Datapoint
- Wetland Datapoint Supplemental Datapoint
- 000 Photo Locations
- **DropInlets and Culvert** Inlets/Outfalls
- Streams and Ditches Wetlands
- Culverts
- Elgin O'Hare Western Access Project (EOWA Project)



DELINEATED WATERS OF THE UNITED STATES 2019

CHICAGO O'HARE INTERNATIONAL AIRPORT

SOURCE: ORTHOIMAGERY, DIGITALGLOBE, JULY 2018.

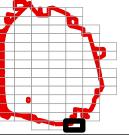


Figure O3

DELINEATED WATERS OF THE US

DRAWN BY: CBM QA/QC BY: BH

DATE: OCTOBER 2019

JUNE 2022

Appendix H. Midwest Region Data Sheets

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

| Project/Site: Chicago O'Hare International Airport (| ORD) | City/Cou | nty: Chicag | o/Cook | Sampling Dat | e: <u>8/22/2019</u> |
|--|------------------|---------------|---------------|------------------------------------|--|---------------------|
| Applicant/Owner: City of Chicago | | | | State: IL | Sampling Poir | nt: NE19-13 UPI |
| Investigator(s): Brauna Hartzell, Conor Makepeace, | Mead & Hunt, Inc | c. Section, 1 | ownship, Ra | inge: Section 4, T40 | ON, R12E | |
| Landform (hillside, terrace, etc.): basin | | | | concave, convex, nor | | |
| Slope (%): <1% Lat: 41.99306858 | | | 87.88347468 | | Datum: WGS84 | <u> </u> |
| Soil Map Unit Name: 533 - Urban land (Non-hydric | (0%)) | | 01.00011100 | | assification: | <u>'</u> |
| | | | V V | | | . \ |
| Are climatic / hydrologic conditions on the site typic | | | | No (If no, | | |
| Are Vegetation, SoilX_, or Hydrology | | | | Circumstances" prese | | No |
| Are Vegetation, Soil, or Hydrology | naturally prob | lematic? (| If needed, ex | xplain any answers in | Remarks.) | |
| SUMMARY OF FINDINGS – Attach site | map showin | g samplin | g point lo | cations, transe | cts, important f | eatures, etc. |
| Hydrophytic Vegetation Present? Yes | No X | Is the | Sampled A | rea | | |
| Hydric Soil Present? Yes | No x | | n a Wetland | | No X | |
| Wetland Hydrology Present? Yes | No X | | | | | |
| Remarks: | · | | | | | |
| Constructed detention area. | | | | | | |
| | | | | | | |
| $\label{eq:VEGETATION} \textbf{VEGETATION} - \textbf{Use scientific names of}$ | plants. | | | | | |
| Torre Otrestano (Districtor | Absolute | Dominant | Indicator | Daminana Tari | | |
| Tree Stratum (Plot size:) 1. | % Cover | Species? | Status | Dominance Test | | |
| 2. | | | | Number of Domina Are OBL, FACW, | • | 1 (A) |
| 3. | | | | Total Number of D | | () |
| 4. | | | | Across All Strata: | ommant opecies | 3 (B) |
| 5. | | | | Percent of Domina | ant Species That | |
| | = | Total Cover | | Are OBL, FACW, | | 33.3% (A/B) |
| Sapling/Shrub Stratum (Plot size: |) | | | | | |
| 1. | | | | Prevalence Index | | |
| 2. | | | | Total % Cove | | iply by: |
| 3. | | | | OBL species | 0 x 1 = 45 x 2 = | 0 |
| 4 5. | | | | FACW species FAC species | 45 x 2 = 0 x 3 = | 90 0 |
| o | ₌ | Total Cover | | FACU species | 40 x 4 = | 160 |
| <u>Herb Stratum</u> (Plot size: 5 ft) | | | | UPL species | 15 x 5 = | 75 |
| Solidago sempervirens | 45 | Yes | FACW | Column Totals: | 100 (A) | 325 (B) |
| 2. Bouteloua dactyloides | 20 | Yes | FACU | Prevalence Ind | ex = B/A = 3 | 3.25 |
| 3. Symphyotrichum ericoides | 20 | Yes | FACU | | | |
| 4. Dipsacus laciniatus | 15 | No | UPL | | etation Indicators: | |
| 5. | | | | | t for Hydrophytic Ve | getation |
| 6. | | | | | e Test is >50% | |
| 7. | | | | | e Index is ≤3.0 ¹ ical Adaptations ¹ (P | rovido supportin |
| 8 9. | | | | | narks or on a separa | |
| 10. | | | | | lydrophytic Vegetati | |
| · · · · | 100 = | Total Cover | | | ic soil and wetland l | , |
| Woody Vine Stratum (Plot size: |) | | | • | ic soil and welland i disturbed or proble | |
| 1. | <u>-</u> | | | Hydrophytic | • | |
| 2. | | | | Vegetation | | |
| | = | Total Cover | | | 'es No | X |
| Remarks: (Include photo numbers here or on a se | eparate sheet.) | | | - | | |
| Community Type: developed land HGM Type: N/ | A Also present w | as Ambrosia | trifida Helia | inthus sp. Hydronhy | tic vegetation not pr | esent |

SOIL Sampling Point: NE19-13 UPL

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

| Project/Site: Chicago O'Hare International Airport (OR | D) | City/Cour | nty: Chicago | o/Cook | Sampling Date | : <u>7/16/</u> | /2019 |
|--|-----------------|----------------|---------------|---|---------------------------------|-----------------------|--------------|
| Applicant/Owner: City of Chicago | | | | State:IL | _ Sampling Poin | t: <u>NE19</u> | -13 WET |
| Investigator(s): Brauna Hartzell, Kim Shannon, Mead 8 | Hunt, Inc. | Section, T | ownship, Ra | inge: Section 4, T40N | - , R12E | | |
| Landform (hillside, terrace, etc.): depression | | | ocal relief (| concave, convex, none | : concave | | |
| Slope (%): <1% Lat: 41.99312553 | | Long: -8 | 37.88341286 | 3 | Datum: WGS84 | | |
| Soil Map Unit Name: 533 - Urban land (Non-hydric (0% | 6)) | | | NWI class | sification: PEM | | |
| Are climatic / hydrologic conditions on the site typical f | | vear? | Yes X | No (If no, ex | xplain in Remarks. |) | |
| Are Vegetation, SoilX_, or Hydrology | | | | | | | |
| Are Vegetation , Soil , or Hydrology | | | | rplain any answers in R | <u> </u> | | _ |
| SUMMARY OF FINDINGS – Attach site m | | | | | | eatures | s, etc. |
| Hydrophytic Vegetation Present? Yes X No | 0 | Is the | Sampled A | rea | | | |
| Hydric Soil Present? Yes X No | 0 | withir | a Wetland | ? Yes X | No | | |
| Wetland Hydrology Present? Yes X No | o | | | | | | |
| Remarks: | | <i></i> | | | | | |
| Constructed detention area fed by one main culvert a | nd surface rui | n off. Area ap | pears to be | tiled. | | | |
| VECETATION . He a colombific mornes of mis | | | | | | | |
| VEGETATION – Use scientific names of pla | Absolute | Dominant | Indicator | | | | |
| <u>Tree Stratum</u> (Plot size: | % Cover | Species? | Status | Dominance Test we | orksheet: | | |
| 1 | | | | Number of Dominan Are OBL, FACW, or | • | 2 | (A) |
| 3. 4. | | | | Total Number of Dor Across All Strata: | | 2 | (B) |
| 5. | | | | Percent of Dominan | • | 100.00/ | _ |
| Conline/Chrush Ctratum (Diet size) | | Total Cover | | Are OBL, FACW, or | FAC: | 100.0% | _(A/B) |
| Sapling/Shrub Stratum (Plot size: |) | | | Prevalence Index w | orkshoot: | | |
| 1 | | | | Total % Cover | | oly by: | |
| 3. | | | | | 55 x 1 = | 55 | _ |
| 4. | | | | FACW species | 60 x 2 = | 120 | |
| 5. | | | | FAC species | 0 x 3 = | 0 | _ |
| | = | Total Cover | | FACU species | 0 x 4 = | 0 | _ |
| Herb Stratum (Plot size: 5 ft) | | | - A 0144 | UPL species | 0 x 5 = | 0 | - (D) |
| Phragmites australis | 60 | Yes | FACW | | 15 (A) | 175 | - (B) |
| Schoenoplectus tabernaemontani Typha angustifolia | <u>25</u> 20 | Yes No | OBL OBL | Prevalence Index | = B/A = <u>1.</u> | 52 | - |
| 4. Eleocharis obtusa | 10 | No | OBL | Hydrophytic Vegeta | ation Indicators: | | |
| | | 110 | | X 1 - Rapid Test fo | | etation | |
| 6. | | | | X 2 - Dominance | | | |
| 7. | | | | X 3 - Prevalence I | | | |
| 8. | | | | 4 - Morphologica | al Adaptations ¹ (Pr | ovide su | pporting |
| 9. | | | | data in Rema | rks or on a separa | te sheet) |) |
| 10 | | | | Problematic Hyd | Irophytic Vegetatio | n ¹ (Expla | ain) |
| Woody Vine Stratum (Plot size: | | Total Cover | | ¹ Indicators of hydric be present, unless d | | | must |
| 1. | | | | Hydrophytic | | | |
| 2. | | | | Vegetation | | | |
| | | Total Cover | | Present? Yes | X No | | |

SOIL Sampling Point: NE19-13 WET

| Profile Desc | ription: (Describe | to the dep | th needed to docu | ıment th | ne indica | tor or c | onfirm the abs | ence of ir | ndicators.) | | |
|---------------------------|-------------------------|--------------|-----------------------|-----------|-------------------|------------------|---------------------|--------------|-------------------|---------------|----------|
| Depth | Matrix | | Redox | k Featur | es | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Rer | narks | |
| 0-8 | 10YR 2/1 | 100 | | | | | Loamy/Clay | ey | with p | ebbles | |
| 8-16 | 10YR 2/1 | 60 | | | | | Loamy/Claye | ey | mixe | d layer | |
| | 10YR 5/1 | 39 | 7.5YR 4/4 | 1 | С | M | | | prominent i | edox featu | re |
| | | | | | | | | | · · | ture is clay | |
| | | | | | | | | | above ter | itaro io olay | |
| • | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | oncentration, D=Depl | etion, RM= | Reduced Matrix, N | 1S=Masl | ked Sand | l Grains. | | | L=Pore Lining, N | | 2 |
| Hydric Soil | | | | | | | Ind | | or Problematic | - | ls°: |
| Histosol | ` ' | | Sandy Gle | | rix (S4) | | | _ | airie Redox (A1 | | |
| | ipedon (A2) | | Sandy Red | | | | | _ | iganese Masses | ` ' | |
| Black His | | | Stripped M | , | 6) | | | - | ent Material (F2 | , | |
| | n Sulfide (A4) | | Dark Surfa | | | | | _ | allow Dark Surfa | , , | |
| | Layers (A5) | | Loamy Mu | | | | X | Other (E | xplain in Remarl | ks) | |
| 2 cm Mu | | | Loamy Gle | - | | | | | | | |
| · | I Below Dark Surface | (A11) | Depleted N | | | | 3 | | | | |
| | rk Surface (A12) | | Redox Dar | | ` ' | | ³Inc | | hydrophytic vec | | |
| | lucky Mineral (S1) | | Depleted D | | , , | | | | hydrology must | | |
| 5 cm Mu | cky Peat or Peat (S3 | 5) | Redox Dep | ression | s (F8) | | | unless di | isturbed or probl | ematic. | |
| Restrictive I | Layer (if observed): | | | | | | | | | | |
| Type: | | | | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Pr | resent? | Yes | <u> </u> | No |
| | does have small amo | ount of redo | ox feature of 7.5YR | 4/4. Hy | dric soils | are pre | sent but problen | natic. | | | |
| HYDROLO | GY | | | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | | | |
| Primary India | cators (minimum of o | ne is requi | red; check all that a | apply) | | | Sec | condary In | idicators (minim | um of two r | equired) |
| Surface | Water (A1) | | Water-Stai | ned Lea | ves (B9) | | | Surface | Soil Cracks (B6) |) | |
| High Wa | ter Table (A2) | | Aquatic Fa | una (B1 | 3) | | | Drainage | Patterns (B10) | | |
| Saturatio | on (A3) | | True Aqua | tic Plant | s (B14) | | | Dry-Seas | son Water Table | e (C2) | |
| Water M | arks (B1) | | Hydrogen | | | | | - | Burrows (C8) | | |
| Sedimen | t Deposits (B2) | | Oxidized R | | | - | oots (C3) | - | n Visible on Ae | | (C9) |
| | osits (B3) | | Presence of | | | | | - | or Stressed Plar | ` ' | |
| | t or Crust (B4) | | Recent Iron | | | lled Soils | | _ | ohic Position (D2 | 2) | |
| | osits (B5) | | Thin Muck | | | | <u>X</u> | FAC-Neu | utral Test (D5) | | |
| | on Visible on Aerial Ir | | | | | | | | | | |
| Sparsely | Vegetated Concave | Surface (E | 38)Other (Exp | lain in R | emarks) | | | | | | |
| Field Obser | | | | | | | | | | | |
| Surface Wat | | | | Depth (ii | _ | | | | | | |
| Water Table | | | | Depth (ii | _ | | l | | | | . |
| Saturation P | | s | No X | Depth (ii | nches): | | Wetland Hyd | drology P | resent? Yes | <u> </u> | No |
| (includes cap | | | mitania e con P | 4 - ما مد | | | | la. | | | |
| Describe Re | corded Data (stream | gauge, mo | onitoring well, aeria | pnotos, | , previous | sinspect | tions), it availabl | ie: | | | |
| Domarka | | | | | | | | | | | |
| Remarks: A 30" culvert | feeds eastern side o | of wetland | vith standing water | about 6 | " deen at | exit W | etland hydrology | v is indicat | ted. | | |
| | | | startaing water | | 225p ai | ** | , a. o.ogy | , | ·• | | |
| | | | | | | | | | | | |

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

| Project/Site: Chicago O'Hare International Airport (OF | RD) | City/Cou | nty: Chicago | o/Cook | Sampling Da | te: <u>7/30</u> | /2019 |
|---|---------------------|-------------------|---------------------|-------------------------------------|----------------------------------|-----------------|-------------|
| Applicant/Owner: City of Chicago | | | , | State: IL | Sampling Po | int: NE19 | 9-20 UPL2 |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Shannor | n, Mead & Hunt, Ind | s. Section, 1 | Γownship, Ra | inge: Section 32, T41N | l, R12E | | |
| Landform (hillside, terrace, etc.): | | <u> </u> | Local relief (| concave, convex, none): | none | | |
| Slope (%): <1% Lat: 42.00709607 | | | 87.90018846 | , } | Datum: WGS8 | 4 | |
| Soil Map Unit Name: 533 - Urban land (Non-hydric (0' | %)) | | | NWI classi | | | |
| Are climatic / hydrologic conditions on the site typical | • | Ever2 | Voc V | | | c) | |
| | | - | Yes X | | | • | |
| Are Vegetation, Soil, or Hydrology | - | | | Circumstances" present | | NO | _ |
| Are Vegetation, Soil, or Hydrology | = | | | xplain any answers in Re | • | foaturo | s oto |
| SUMMARY OF FINDINGS - Attach site if | iap silowiii | | ig point ic | | s, important | | 5, 610. |
| | lo <u>X</u> | | Sampled A | | | | |
| | lo | withi | n a Wetland | ? Yes | No X | | |
| Wetland Hydrology Present? YesN | lo <u>X</u> | | | | | | |
| Remarks: | | | | | | | |
| | | | | | | | |
| VECETATION III and distribution for | | | | | | | |
| VEGETATION – Use scientific names of pl | | D | | | | | |
| Tree Stratum (Plot size: 30ft) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test wo | rksheet: | | |
| 1. Ulmus pumila | 10 | Yes | UPL | Number of Dominant | | | |
| 2. Juniperus virginiana | 5 | Yes | FACU | Are OBL, FACW, or I | | 1 | (A) |
| 3. Pyrus calleryana | 5 | Yes | UPL | Total Number of Don | - | | _ `` |
| 4. | | | | Across All Strata: | | 5 | (B) |
| 5. | | | | Percent of Dominant | Species That | | <u> </u> |
| | 20 = | Total Cover | | Are OBL, FACW, or I | FAC: | 20.0% | _(A/B) |
| Sapling/Shrub Stratum (Plot size: 15ft | _) | | | | | | |
| Rhamnus cathartica | 20 | Yes | FAC | Prevalence Index w | | | |
| 2. | | | | Total % Cover o | | tiply by: | _ |
| 3 | | | | · - | 2 x1=_ | 2 | _ |
| 5. | | | | ' | 8 x2= 85 x3= | 16 105 | _ |
| J | 20 = | Total Cover | | · — | 35 x 3 = <u> </u> | 280 | _ |
| Herb Stratum (Plot size: 5ft) | | - Total Gover | | · — | $\frac{0}{20}$ $x = \frac{1}{2}$ | 100 | _ |
| 1. Solidago canadensis | 60 | Yes | FACU | | 35 (A) | 503 | (B) |
| 2. Rhamnus cathartica | 15 | No | FAC | Prevalence Index | | 3.73 | _` ′ |
| 3. Juniperus virginiana | 5 | No | FACU | | | | _ |
| 4. Dipsacus laciniatus | 5 | No | UPL | Hydrophytic Vegeta | tion Indicators | : | |
| 5. Solidago sempervirens | 5 | No | FACW | 1 - Rapid Test fo | r Hydrophytic Ve | egetation | |
| 6. Phragmites australis | 3 | No | FACW | 2 - Dominance T | est is >50% | | |
| 7. Lythrum salicaria | 2 | No | OBL | 3 - Prevalence In | | | |
| 8 | | | | 4 - Morphologica | | | |
| 9. | | | | | ks or on a sepa | | • |
| 10 | | T-4-1-0 | | Problematic Hyd | | | • |
| Manada Vina Chartura (Diet eine | 95 = | Total Cover | | ¹ Indicators of hydric s | | | must |
| Woody Vine Stratum (Plot size: | _) | | | be present, unless di | sturped or probl | ematic. | |
| 1 | | | | Hydrophytic | | | |
| <u></u> | · | Total Cover | | Vegetation Present? Yes | No _ | X | |
| | | . 5.61 55761 | | | | | |
| Remarks: (Include photo numbers here or on a separate sh Community Type: upland forest HGM Type: N/A About 15ft separate | , | ne paired wetland | point with about | 6in change in elevation. Hydrop | hytic vegetation is no | t present. | |

SOIL Sampling Point: NE19-20 UPL2

| Profile Desc | cription: (Descri | be to the dep | th needed to doc | ument t | he indica | tor or c | onfirm the absence | of indicators.) | | | |
|-------------------------|---|-------------------|-----------------------|------------|-------------------|------------------|----------------------------------|---|--|--|--|
| Depth | Matri | x | Redo | x Featur | es | | | | | | |
| (inches) | Color (moist |) % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | | |
| 0-9 | 10YR 3/1 | 100 | | | | | Loamy/Clayey | | | | |
| 9-10 | 7.5YR 3/1 | 100 | | | | | Loamy/Clayey | clay; layer texture change | | | |
| 10-16 | 10YR 4/1 | 75 | 10YR 5/6 | 25 | С | M | Loamy/Clayey | Prominent redox concentrations | | | |
| 10-10 | 101114/1 | _ | 10111 3/0 | | | IVI | Loamy/Clayey | 1 Tominent redox concentrations | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=[| Depletion, RM= | Reduced Matrix, I | иS=Mas | ked Sand | Grains | . ² Location | : PL=Pore Lining, M=Matrix. | | | |
| Hydric Soil | Indicators: | | | | | | | s for Problematic Hydric Soils ³ : | | | |
| Histosol | (A1) | | Sandy Gle | yed Mat | rix (S4) | | Coas | t Prairie Redox (A16) | | | |
| Histic Ep | oipedon (A2) | | Sandy Re | dox (S5) | | | Iron-l | Manganese Masses (F12) | | | |
| Black Hi | stic (A3) | | Stripped N | latrix (Se | 3) | | Red I | Parent Material (F21) | | | |
| Hydroge | n Sulfide (A4) | | Dark Surfa | ace (S7) | | | Very | Shallow Dark Surface (F22) | | | |
| Stratified | d Layers (A5) | | Loamy Mu | icky Mine | eral (F1) | | Othe | r (Explain in Remarks) | | | |
| 2 cm Mu | ıck (A10) | | Loamy Gle | eyed Ma | trix (F2) | | | | | | |
| X Depleted | d Below Dark Sur | face (A11) | X Depleted I | Matrix (F | 3) | | | | | | |
| Thick Da | ark Surface (A12) | | Redox Da | rk Surfac | ce (F6) | | ³ Indicator | s of hydrophytic vegetation and | | | |
| Sandy M | lucky Mineral (S1 |) | Depleted I | Dark Sur | face (F7) | | wetla | nd hydrology must be present, | | | |
| 5 cm Mu | 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) | | | | | | unless disturbed or problematic. | | | | |
| Restrictive | Layer (if observe | ed): | | | | | | | | | |
| Type: | | | | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Present | ? Yes <u>X</u> No | | | |
| Remarks: | | | | | | | | | | | |
| Hydric soils | are present. Hyd | ric soils indicat | tors Depleted Belo | w Dark S | Surface (| A11) and | d Depleted Matrix (F3) | are satisfied. | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| HYDROLO | GY | | | | | | | | | | |
| Wetland Hy | drology Indicato | rs: | | | | | | | | | |
| - | | | red; check all that | apply) | | | Secondar | y Indicators (minimum of two required) | | | |
| | Water (A1) | | Water-Sta | | ives (B9) | | | ice Soil Cracks (B6) | | | |
| I — | iter Table (A2) | | Aquatic Fa | auna (B1 | 3) | | Drain | age Patterns (B10) | | | |
| Saturation | | | True Aqua | - | - | | | Season Water Table (C2) | | | |
| Water M | larks (B1) | | Hydrogen | Sulfide (| Odor (C1) |) | X Crayf | fish Burrows (C8) | | | |
| Sedimer | nt Deposits (B2) | | Oxidized F | Rhizosph | eres on L | iving Ro | oots (C3) Satur | ration Visible on Aerial Imagery (C9) | | | |
| Drift Dep | oosits (B3) | | Presence | of Redu | ced Iron (| C4) | Stunt | ed or Stressed Plants (D1) | | | |
| Algal Ma | at or Crust (B4) | | Recent Iro | n Reduc | tion in Ti | led Soil | s (C6) Geon | norphic Position (D2) | | | |
| Iron Dep | osits (B5) | | Thin Muck | Surface | e (C7) | | FAC- | Neutral Test (D5) | | | |
| Inundation | on Visible on Aeri | al Imagery (B7 |)Gauge or | Well Dat | a (D9) | | | | | | |
| Sparsely | Vegetated Cond | ave Surface (E | 38)Other (Exp | olain in F | Remarks) | | | | | | |
| Field Obser | vations: | | | | | | | | | | |
| Surface Wat | er Present? | Yes | No X | Depth (i | nches): | | | | | | |
| Water Table | Present? | Yes | No X | | nches): | | | | | | |
| Saturation P | | Yes | No X | Depth (i | nches): | | Wetland Hydrolog | gy Present? Yes No X | | | |
| (includes cap | • • | | | | | _ | | | | | |
| Describe Re | corded Data (stre | am gauge, mo | onitoring well, aeria | l photos | , previous | sinspec | tions), if available: | | | | |
| Damaratica | | | | | | | | | | | |
| Remarks: Wetland hyd | Irology is neither | nresent nor ind | licated | | | | | | | | |
| VVCtiand nyu | nology is ricitier | prosent nor mu | iloutou. | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

| Project/Site: Chicago O'Hare International Airport (ORI |) | City/Cou | nty: Chicago | o/Cook Sampling Date: 7/31/2019 |
|--|----------------|-----------------|-------------------|---|
| Applicant/Owner: City of Chicago | | | | State: IL Sampling Point: NE19-20 UPL1 |
| Investigator(s): Brauna Hartzell, Kim Shannon, Mead & | k Hunt, Inc. | Section, | Гownship, Ra | ange: Section 32, T41N, R12E |
| Landform (hillside, terrace, etc.): flat | | | Local relief (| concave, convex, none): none |
| Slope (%): 0 Lat: 42.00725802 | | Long: - | 87.90005768 | Datum: WGS84 |
| Soil Map Unit Name: 533 - Urban land (Non-hydric (0% | 5) | | | NWI classification: |
| Are climatic / hydrologic conditions on the site typical for | or this time o | f year? | | No (If no, explain in Remarks.) |
| Are Vegetation , Soil , or Hydrology s | | - | | |
| Are Vegetation, Soil, or Hydrologyr | | | | |
| | | | | ocations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No | . X | ls the | Sampled A | roa |
| | $\frac{X}{X}$ | | n a Wetland | |
| | $\frac{X}{X}$ | | | <u></u> |
| Remarks: | | | | |
| | | | | |
| | | | | |
| VEGETATION – Use scientific names of pla | nts. | | | |
| Taga Chartura (Diet sing) | Absolute | Dominant | Indicator | Daminana Tast wallahast |
| Tree Stratum (Plot size:) 1. | % Cover | Species? | Status | Dominance Test worksheet: |
| 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) |
| 3. | | | | Total Number of Dominant Species |
| 4. | | | | Across All Strata: 3 (B) |
| 5. | | | | Percent of Dominant Species That |
| | = | =Total Cover | | Are OBL, FACW, or FAC: <u>33.3%</u> (A/B) |
| Sapling/Shrub Stratum (Plot size: 15ft) | l | | | |
| 1. Rhamnus cathartica | 40 | Yes | FAC | Prevalence Index worksheet: |
| 2. 3. | | | | Total % Cover of: Multiply by: OBL species 1 x 1 = 1 |
| 3. 4 | | | | FACW species 2 x 2 = 4 |
| 5. | | | | FAC species 55 x 3 = 165 |
| | 40 | Total Cover | | FACU species 42 x 4 = 168 |
| Herb Stratum (Plot size: 5ft) | | | | UPL species 42 x 5 = 210 |
| Dipsacus laciniatus | 40 | Yes | UPL | Column Totals: 142 (A) 548 (B) |
| Solidago canadensis | 40 | Yes | FACU | Prevalence Index = B/A = 3.86 |
| 3. Rhamnus cathartica | 15 | No | FAC | |
| 4. Dichanthelium oligosanthes | 2 | No No | FACU | Hydrophytic Vegetation Indicators: |
| Leucanthemum vulgare Lythrum salicaria | 1 | No No | <u>UPL</u> OBL | 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% |
| 7. | | INO | OBL | 3 - Prevalence Index is ≤3.0 ¹ |
| 8. | | | | 4 - Morphological Adaptations ¹ (Provide supporting |
| 9. | | | | data in Remarks or on a separate sheet) |
| 10. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| | 100 = | Total Cover | | ¹ Indicators of hydric soil and wetland hydrology must |
| Woody Vine Stratum (Plot size: 30ft) | ı | | | be present, unless disturbed or problematic. |
| 1. Vitis riparia | 2 | No | FACW | Hydrophytic |
| 2 | | T-4-1-0 | | Vegetation No. 1 |
| | | =Total Cover | | Present? Yes No X |
| Remarks: (Include photo numbers here or on a separ Community Type: developed land HGM Type: N/A; Hydrophy | | is not present. | Little elevation | change between points; 50ft separates points. |

SOIL Sampling Point: NE19-20 UPL1

| | - | to the dept | | | | tor or o | confirm the absence of | of indicators.) |
|-------------------------|---|--------------|-----------------------|-----------|-------------------|------------------|------------------------|---|
| Depth | Matrix | | | Featur | | Loc ² | T 4 | Damada |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | <u>%</u> | Type ¹ | LOC | Texture | Remarks |
| 0-9 | 10YR 3/1 | 100 | | | | | Loamy/Clayey | |
| 9-16 | 10YR 4/6 | 60 | | | | | Loamy/Clayey | mixed layer |
| | 10YR 5/1 | 40 | | | | | Loamy/Clayey | mixed layer |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion. RM= | Reduced Matrix. M | IS=Masl | ked Sand | Grains | 2Location | : PL=Pore Lining, M=Matrix. |
| Hydric Soil | | , | , | | | | | s for Problematic Hydric Soils ³ : |
| Histosol | | | Sandy Gley | ed Mat | rix (S4) | | | t Prairie Redox (A16) |
| | ipedon (A2) | | Sandy Red | | (- ') | | | Manganese Masses (F12) |
| Black His | | | Stripped M | | 6) | | | Parent Material (F21) |
| | n Sulfide (A4) | | Dark Surfa | , | , | | | Shallow Dark Surface (F22) |
| | Layers (A5) | | Loamy Mu | ` ' | eral (F1) | | | r (Explain in Remarks) |
| 2 cm Mu | • , , | | Loamy Gle | - | | | | , |
| | Below Dark Surface | (A11) | Depleted M | | | | | |
| | rk Surface (A12) | . , | Redox Dari | | | | ³ Indicator | s of hydrophytic vegetation and |
| Sandy M | ucky Mineral (S1) | | Depleted D | ark Sur | face (F7) | | wetla | nd hydrology must be present, |
| 5 cm Mu | cky Peat or Peat (S3 |) | Redox Dep | ressions | s (F8) | | unles | s disturbed or problematic. |
| Restrictive I | _ayer (if observed): | | | | | | | |
| Type: | , | | | | | | | |
| Depth (in | iches): | | | | | | Hydric Soil Present | ? Yes No X |
| Remarks: | | | | | | | • | |
| | are not present. Does | not meet | hydric soils criteria | | | | | |
| , | с т. ст. р. сост. т. 2 сос | | , | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | GY | | | | | | | |
| Wetland Hyd | drology Indicators: | | | | | | | |
| | cators (minimum of o | ne is requir | ed; check all that a | apply) | | | Secondar | y Indicators (minimum of two required) |
| Surface \ | Water (A1) | | Water-Stai | ned Lea | ves (B9) | | X Surfa | ce Soil Cracks (B6) |
| High Wa | ter Table (A2) | | Aquatic Fa | una (B1 | 3) | | Drain | age Patterns (B10) |
| Saturation | on (A3) | | True Aquat | ic Plant | s (B14) | | Dry-S | Season Water Table (C2) |
| Water M | arks (B1) | | Hydrogen S | Sulfide C | Odor (C1) | | Crayf | ish Burrows (C8) |
| Sedimen | t Deposits (B2) | | Oxidized R | hizosph | eres on L | iving R | oots (C3) Satur | ration Visible on Aerial Imagery (C9) |
| | osits (B3) | | Presence of | | , | , | | ed or Stressed Plants (D1) |
| | t or Crust (B4) | | Recent Iron | | | led Soil | ` ' | norphic Position (D2) |
| | osits (B5) | | Thin Muck | | | | FAC- | Neutral Test (D5) |
| | on Visible on Aerial In | | · | | | | | |
| Sparsely | Vegetated Concave | Surface (B | (Exp | lain in R | emarks) | | | |
| Field Observ | vations: | | | | | | | |
| Surface Wat | er Present? Yes | s | | | nches): _ | | | |
| Water Table | | s | | | nches): _ | | | |
| Saturation P | | s | No X | Depth (ii | nches): _ | | Wetland Hydrolog | gy Present? Yes No X |
| (includes cap | | | | | | | 1 | |
| Describe Re | corded Data (stream | gauge, mo | nitoring well, aerial | photos | , previous | inspec | tions), if available: | |
| Domanica | | | | | | | | |
| Remarks: Wetland hvd | rology is neither pres | ent nor ind | icated | | | | | |
| . rouana nya | . c.eg, io nomioi pros | 5.10 HO | | | | | | |
| | | | | | | | | |

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

| Project/Site: Chicago O'Hare International Airport (OF | RD) | City/Cou | nty: Chicag | o/Cook | Sampling Date | e: 7/31 | /2019 |
|---|----------------|----------------------|---------------|---|-----------------------|-----------|-----------------|
| Applicant/Owner: City of Chicago | · | | - | State: IL | Sampling Poir | nt: NE19 | 9-20 WET |
| Investigator(s): Brauna Hartzell, Kim Shannon, Mead | & Hunt. Inc. | Section. | Township. Ra | ange: Section 32, T41N | I. R12E | | |
| Landform (hillside, terrace, etc.): basin, shallow | • | | | concave, convex, none): | | | |
| Slope (%): <1% Lat: 42.00715888 | | | 87.90019186 | • | Datum: WGS84 | | |
| | 0/, \\ | Long. <u>-</u> | 07.50015100 | | | | |
| Soil Map Unit Name: 533 - Urban land (Non-hydric (0 | | | ., ., | | ification: PEM PS | | |
| Are climatic / hydrologic conditions on the site typical | | - | Yes X | | • | • | |
| Are Vegetation, Soil, or Hydrology | •' | | Are "Normal (| Circumstances" present? | ? Yes <u>X</u> | No | _ |
| Are Vegetation, Soil, or Hydrology | naturally prol | olematic? (| If needed, ex | xplain any answers in Re | marks.) | | |
| SUMMARY OF FINDINGS – Attach site m | ap showir | ng samplin | ng point lo | ocations, transects | i, important f | eatures | s, etc. |
| Hydrophytic Vegetation Present? Yes X N | lo | Is the | Sampled A | rea | | | |
| | lo | withi | n a Wetland | ? Yes X | No | | |
| Wetland Hydrology Present? Yes X | lo | | | | | | |
| Remarks: | | - | | | | | |
| | | | | | | | |
| | | | | | | | |
| VEGETATION – Use scientific names of plants | ants. | | | | | | |
| Tree Stratum (Plot size: 30ft) | Absolute | Dominant Species? | Indicator | Dominance Test wo | rkohooti | | |
| Tree Stratum (Plot size: 30ft) 1. Populus deltoides | % Cover 25 | Species? Yes | Status FAC | | | | |
| 2. | | 103 | TAO | Number of Dominant Are OBL, FACW, or F | • | 4 | (A) |
| 3. | | | | Total Number of Dom | _ | · · | _ (' ') |
| 4. | | | | Across All Strata: | шан орсою | 4 | (B) |
| 5. | | | | Percent of Dominant | Species That | | |
| | 25 | =Total Cover | | Are OBL, FACW, or F | • | 100.0% | _(A/B) |
| Sapling/Shrub Stratum (Plot size: 15ft |) | | | | | | |
| Rhamnus cathartica | 30 | Yes | FAC | Prevalence Index w | | | |
| 2. | | | | Total % Cover o | | ply by: | _ |
| 3 | | | | · — | 85 x 1 = | 65 | _ |
| 4. | | | | · — | 6 x 2 = 5 x 3 = | 32 | _ |
| 5 | 30 | =Total Cover | | · — | 65 x 3 = 4 x 4 = | 195 16 | _ |
| Herb Stratum (Plot size: 5ft) | | - Total Cover | | · — | 0 x5= | 50 | _ |
| 1. Lythrum salicaria | 65 | Yes | OBL | | 60 (A) | 358 | – (B) |
| 2. Rhamnus cathartica | 10 | No | FAC | Prevalence Index | `´ _ | .24 | _` ' |
| 3. Dipsacus laciniatus | 10 | No | UPL | | | | _ |
| 4. Solidago gigantea | 5 | No | FACW | Hydrophytic Vegeta | tion Indicators: | | |
| 5. Solidago sempervirens | 5 | No | FACW | 1 - Rapid Test fo | r Hydrophytic Ve | getation | |
| 6. Fragaria virginiana | 2 | No | FACU | X 2 - Dominance T | | | |
| 7. Juniperus virginiana | 2 | No | FACU | X 3 - Prevalence In | | | |
| 8. Phragmites australis | 1 | No | FACW | 4 - Morphologica | | | |
| 9. | | | | | ks or on a separa | | |
| 10 | 100 | -Total Carra | | Problematic Hydi | | | - |
| Woody Vine Stratum (Plot size: 30ft | 100 | =Total Cover | | ¹ Indicators of hydric s be present, unless dis | | | must |
| Woody Vine Stratum (Plot size: 30ft 1. Vitis riparia | .) 5 | Yes | FACW | · | starbed of proble | шанс. | |
| 2. | | 100 | 17.000 | Hydrophytic | | | |
| | 5 | =Total Cover | | Vegetation Present? Yes | X No | | |
| Remarks: (Include photo numbers here or on a sepa | | | | 1 | | | |
| Community Type: wet meadow, HCM Type: depressional, Hydrophytic | , | aant Cattaniiiaad | tlt | adaa Calidaaa aliisaissa Dhaas | united and Timbe uses | ht h - H | , hanin |

SOIL Sampling Point: NE19-20 WET

| Profile Desc | cription: (Descr | ibe to the dep | th needed to doc | ument t | he indica | tor or c | onfirm the absence | of indicators.) |
|---------------|---|-------------------|-----------------------|------------|-------------------|------------------|---------------------------------------|--|
| Depth | Matr | ix | Redo | x Featur | es | | | |
| (inches) | Color (moist |) % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-4 | 7.5YR 3/1 | 100 | | | | | Loamy/Clayey | clay loam |
| 4-7 | 7.5YR 4/1 | 90 | 10YR 4/6 | 10 | C | M | Loamy/Clayey | Prominent redox concentrations |
| 7-16 | 10YR 5/1 | 75 | 7.5YR 5/6 | 25 | С | M | Loamy/Clayey | Prominent redox concentrations |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| <u> </u> | | | | | | | | |
| l | | | | | | | | |
| | | Depletion, RM | Reduced Matrix, | MS=Mas | ked Sand | l Grains. | | : PL=Pore Lining, M=Matrix. |
| Hydric Soil | | | | | | | | rs for Problematic Hydric Soils ³ : |
| Histosol | ` ' | | Sandy Gle | - | | | | t Prairie Redox (A16) |
| | oipedon (A2) | | Sandy Re | | | | | Manganese Masses (F12) |
| | stic (A3) | | Stripped N | • | 3) | | | Parent Material (F21) |
| | en Sulfide (A4) | | Dark Surf | | | | | Shallow Dark Surface (F22) |
| | d Layers (A5) | | Loamy Mu | - | | | Othe | r (Explain in Remarks) |
| | ıck (A10) | | Loamy Gl | - | | | | |
| · | d Below Dark Sur | , , | X Depleted | • | • | | 3 | |
| | ark Surface (A12) | | Redox Da | | ` ' | | | rs of hydrophytic vegetation and |
| | Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) | | | | | | | and hydrology must be present, |
| 5 cm Mu | 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) | | | | | | unles | ss disturbed or problematic. |
| Restrictive | Layer (if observe | ed): | | | | | | |
| Type: | | | | | | | | |
| Depth (ii | nches): | | | | | | Hydric Soil Present | t? Yes X No |
| Remarks: | | | | | | | | |
| Hydric soils | are present. Hyd | lric soils indica | tors Depleted Belo | w Dark S | Surface (| 411) and | d Depleted Matrix (F3) | are satisfied. |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | OGY | | | | | | | |
| Wetland Hy | drology Indicate | ors: | | | | | | |
| _ | | | red; check all that | apply) | | | Seconda | ry Indicators (minimum of two required) |
| - | Water (A1) | | Water-Sta | | ives (B9) | | | ace Soil Cracks (B6) |
| | ater Table (A2) | | Aquatic F | | ` ' | | —— Drair | nage Patterns (B10) |
| Saturation | , , | | True Aqua | | | | | Season Water Table (C2) |
| | larks (B1) | | Hydrogen | | |) | | fish Burrows (C8) |
| | nt Deposits (B2) | | Oxidized I | | , , | | | ration Visible on Aerial Imagery (C9) |
| | posits (B3) | | Presence | | | _ | | ted or Stressed Plants (D1) |
| Algal Ma | at or Crust (B4) | | Recent Iro | on Reduc | tion in Ti | lled Soils | s (C6) X Geor | morphic Position (D2) |
| Iron Dep | posits (B5) | | Thin Mucl | | | | · · · · · · · · · · · · · · · · · · · | -Neutral Test (D5) |
| | on Visible on Aer | ial Imagery (B7 | ') Gauge or | Well Dat | a (D9) | | | |
| Sparsely | Vegetated Cond | ave Surface (E | 38) Other (Ex | plain in F | Remarks) | | | |
| Field Obser | vations: | | | | | | | |
| Surface Wat | | Yes | No X | Depth (i | nches): | | | |
| Water Table | | Yes | No X | Depth (i | - | | | |
| Saturation P | resent? | Yes | No X | Depth (i | | | Wetland Hydrolog | gy Present? Yes X No |
| (includes ca | pillary fringe) | | | | · _ | | <u> </u> | |
| | | eam gauge, mo | onitoring well, aeria | al photos | , previous | sinspec | tions), if available: | |
| | | <u> </u> | | | | | | |
| Remarks: | | | | | | | | |
| Water marks | s to 8 inches on c | ottonwoods ne | ar toe slope of roa | ad; crayfi | sh burrov | vs obser | ved in wetland. Wetla | nd hydrology is indicated. |
| | | | | | | | | |
| | | | | | | | | |

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

| Project/Site: Chicago O'Hare International Airport (| ORD) | City/Cour | nty: Chicago | /Cook | Samp | ling Date: | 7/17/ | 2019 |
|---|-----------------|----------------|--------------|--------------------------------|------------------|----------------|------------|-----------------|
| Applicant/Owner: City of Chicago | | | | State: I | L Samp | ling Point: | NE4 | 1 UPL |
| Investigator(s): Brauna Hartzell, Kim Shannon, Mea | id & Hunt, Inc. | Section, T | ownship, Ra | nge: Section 32, | T41N, R12E | | | |
| Landform (hillside, terrace, etc.): slope | , | | | concave, convex, r | | | | |
| Slope (%): 3% Lat: 42.00111281 | | | • | | · — | WCS84 | | |
| · · · · · · · · · · · · · · · · · · · | /D | | | NA/I | | WG304 | | |
| Soil Map Unit Name: 805A - Orthents, clayey, near | | | | | - | | | |
| Are climatic / hydrologic conditions on the site typic | | - | Yes X | | | | | |
| Are Vegetation X , Soil , or Hydrology | significantly d | isturbed? A | re "Normal C | Circumstances" pre | esent? Yes | X No | · | _ |
| Are Vegetation, Soil, or Hydrology | naturally prob | lematic? (I | f needed, ex | plain any answers | in Remarks.) | | | |
| SUMMARY OF FINDINGS – Attach site | map showin | g samplin | g point lo | cations, trans | ects, impo | rtant fea | tures | , etc. |
| Hydrophytic Vegetation Present? Yes | No X | Is the | Sampled A | ·ea | | | | |
| Hydric Soil Present? Yes | No X | | n a Wetlandî | | No | X | | |
| Wetland Hydrology Present? Yes | No X | | | • | | | | |
| Remarks: | | | | | | | | |
| Area has been and is regularly mown. | | | | | | | | |
| | | | | | | | | |
| VEGETATION – Use scientific names of | plants. | | | | | | | |
| Trace Charles (Diet sine) | Absolute | Dominant | Indicator | Daminanaa Ta | a4a ulaala a a4. | | | |
| Tree Stratum (Plot size:) 1. | % Cover | Species? | Status | Dominance Te | | | | |
| 2 | | | | Number of Dom Are OBL, FACV | | Inat | 1 | (A) |
| 3. | | | | Total Number o | | ocios | • | _('') |
| 4. | | | | Across All Strat | | CCICS | 2 | (B) |
| 5. | | | | Percent of Dom | inant Species | That | | - |
| | = | Total Cover | | Are OBL, FACV | | | 0.0% | (A/B) |
| Sapling/Shrub Stratum (Plot size: |) | | | | | | | |
| 1 | | | | Prevalence Inc | | t: | | |
| 2 | | | | Total % Co | | Multiply | | _ |
| 3. | | | | OBL species | | x 1 = | 5 | _ |
| 4. | | | | FACW species | | | 20 | _ |
| 5 | | Total Cover | | FAC species FACU species | | | 120 180 | - |
| Herb Stratum (Plot size: 5 ft) | | - Total Covel | | UPL species | | x 4 = x 5 = | 0 | - |
| 1. Poa pratensis | 40 | Yes | FAC | Column Totals: | | | 325 | - (B) |
| Elymus repens | 25 | Yes | FACU | | ndex = B/A = | 3.25 | | _ (_ / |
| 3. Plantago lanceolata | 10 | No | FACU | | • | | | - |
| 4. Phalaris arundinacea | 10 | No | FACW | Hydrophytic Vo | egetation Indi | cators: | | |
| 5. Taraxacum officinale | 5 | No | FACU | 1 - Rapid T | est for Hydropl | hytic Veget | ation | |
| 6. Carex stipata | 5 | No | OBL | | nce Test is >50 | | | |
| 7. Achillea millefolium | 2 | No | FACU | | nce Index is ≤3 | | | |
| 8. Dipsacus fullonum | 1 | No | FACU | | logical Adaptat | | | |
| 9. Cirsium arvense | 1 | No | FACU | | Remarks or on | • | , | |
| 10. Erigeron strigosus | 1 | No No | FACU | | c Hydrophytic \ | • | | , |
| Mandy Vine Stratum (Diet -i | 100 = | Total Cover | | ¹ Indicators of hy | | - | | must |
| Woody Vine Stratum (Plot size: | | | | be present, unle | ess aisturbed o | r problema | iliC. | |
| 1 2. | | | | Hydrophytic | | | | |
| | | Total Cover | | Vegetation Present? | Yes | No X | | |
| Demorker (Include whate numbers have as an | | . 3.0. 30701 | | | | <u> </u> | _ | |
| Remarks: (Include photo numbers here or on a secommunity Type: developed land HGM Type: N/A | . , | egetation is n | ot present. | | | | | |

SOIL Sampling Point: NE41 UPL

| | - | to the dep | | | | tor or o | confirm the absence | of indicators.) |
|------------------------|--|---------------|-------------------------|------------------------|----------------------|------------------|---------------------------------------|--|
| Depth | Matrix | 0/ | | r Featur | | Loc ² | Tandona | Damanka |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | <u>%</u> | Type ¹ | LOC | Texture | Remarks |
| 0-4 | 10YR 3/1 | 100 | | | | | Loamy/Clayey | silt loam |
| 4-9 | 10YR 3/1 | 60 | | | | | Loamy/Clayey | |
| | 10YR 4/1 | 38 | 7.5YR 4/6 | 2 | С | M | | Prominent redox concentrations |
| 9-16 | 10YR 3/1 | 100 | | | | | Loamy/Clayey | all layers silt loam; this with pebbles |
| | | | | | | | | |
| | | | | | | | | |
| - | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Dep | etion RM | =Reduced Matrix M | ecM=2l | ked Sand | | ² Location | n: PL=Pore Lining, M=Matrix. |
| Hydric Soil | · | Ction, rtivi | rtoddodd WidthX, W | io ivido | Roa Garie | Oranio | | rs for Problematic Hydric Soils ³ : |
| Histosol | | | Sandy Gley | ved Mat | rix (S4) | | | st Prairie Redox (A16) |
| | pipedon (A2) | | Sandy Red | | | | | Manganese Masses (F12) |
| | istic (A3) | | Stripped M | | | | | Parent Material (F21) |
| | en Sulfide (A4) | | Dark Surfa | | , | | | Shallow Dark Surface (F22) |
| | d Layers (A5) | | Loamy Mu | cky Min | eral (F1) | | Othe | er (Explain in Remarks) |
| | uck (A10) | | Loamy Gle | - | | | | , |
| Deplete | d Below Dark Surface | (A11) | Depleted M | 1atrix (F | 3) | | | |
| Thick Da | ark Surface (A12) | | Redox Dar | k Surfac | ce (F6) | | ³ Indicato | rs of hydrophytic vegetation and |
| Sandy N | /lucky Mineral (S1) | | Depleted D | ark Sur | face (F7) | | wetla | and hydrology must be present, |
| 5 cm Mu | ucky Peat or Peat (S3 | 5) | Redox Dep | Redox Depressions (F8) | | | | ss disturbed or problematic. |
| Restrictive | Layer (if observed): | | | | | | | |
| Type: | | | | | | | | |
| Depth (i | nches): | | | | | | Hydric Soil Presen | t? Yes No X |
| Remarks: | | | | | | | | |
| Hydric soils | are not present. Hydr | ic soil crite | eria were not met. | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | OGY | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | |
| | cators (minimum of o | ne is requi | red; check all that a | apply) | | | <u>Seconda</u> | ry Indicators (minimum of two required) |
| Surface | Water (A1) | | Water-Stai | ned Lea | aves (B9) | | Surfa | ace Soil Cracks (B6) |
| ı — | ater Table (A2) | | Aquatic Fa | | - | | | nage Patterns (B10) |
| Saturati | ` ' | | True Aquat | | , | | | Season Water Table (C2) |
| | larks (B1) | | Hydrogen S | | • | | | fish Burrows (C8) |
| | nt Deposits (B2) | | Oxidized R | | | _ | · · · · · · · · · · · · · · · · · · · | ration Visible on Aerial Imagery (C9) |
| | posits (B3) | | Presence of | | | , | | ted or Stressed Plants (D1) |
| | at or Crust (B4) | | Recent Iron | | | ilea Soil | | morphic Position (D2) |
| | oosits (B5) on Visible on Aerial Ir | magany (B7 | Thin Muck 7) Gauge or V | | , , | | FAC | -Neutral Test (D5) |
| | y Vegetated Concave | | | | | | | |
| | | Curiaco (E | Other (Exp | | (cmanto) | | T | |
| Field Obser | | c | No Y | Donth (i | nchoe): | | | |
| Water Table | | s | | | nches): _ nches): | | | |
| Saturation F | | s | | | nches): | | Wetland Hydrolo | gy Present? Yes No _X |
| | pillary fringe) | | <u> </u> | opui (i | | | Trottana riyaroro | g) |
| | ecorded Data (stream | gauge, mo | onitoring well, aerial | photos | , previous | s inspec | tions), if available: | |
| | , | 0 0 / | 3 | • | | | ,, | |
| Remarks: | | | | | | | | |
| Wetland hyd | drology is neither pres | ent nor inc | dicated. | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

| Project/Site: Chicago O'Hare International Airport (ORI | D) | City/Co | ounty: Chicago | o/Cook or DuPage | Sampling Da | ate: <u>7/17</u> | /2019 |
|---|------------------|-------------|----------------|----------------------------------|---------------------|------------------|----------|
| Applicant/Owner: City of Chicago | | | | State: IL | Sampling Po | int: NE4 | 1 WET |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Shannon, | Mead & Hunt, Inc | c. Section, | Township, Ra | ange: Section 32, T4 | 1N, R12E | | |
| Landform (hillside, terrace, etc.): depression | | | Local relief (| concave, convex, non | e): concave | | |
| Slope (%): < 1% Lat: 42.00114556 | | Lona: | • | , , | · - | 34 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly le | vel (Predomi | | | | ssification: | - | |
| Are climatic / hydrologic conditions on the site typical for | | | Yes X | • | - | re) | |
| | | - | | · <u></u> - | | | |
| Are Vegetation, Soil, or Hydrologys | | | | | | No | _ |
| Are Vegetation, Soil, or Hydrologyr | | | | cplain any answers in | | | |
| SUMMARY OF FINDINGS – Attach site ma | ap showin | g sampli | ing point lo | ocations, transec | ts, important | features | s, etc. |
| Hydrophytic Vegetation Present? Yes X No | | ls th | ne Sampled A | rea | | | |
| | | with | nin a Wetland | ? Yes <u>></u> | <u> No</u> | | |
| Wetland Hydrology Present? Yes X No | | | | | | | |
| Remarks: | | | | | | | |
| Edge mown regularly. Tractor ruts present along edge | es. | | | | | | |
| VECETATION I II | 4_ | | | | | | |
| VEGETATION – Use scientific names of pla | Absolute | Dominant | Indicator | | | | |
| <u>Tree Stratum</u> (Plot size: | % Cover | Species? | | Dominance Test | worksheet: | | |
| 1. | | | | Number of Domina | nt Species That | | |
| 2. | | | | Are OBL, FACW, o | • | 2 | (A) |
| 3 | | | | Total Number of D | ominant Species | | |
| 4 | | | | Across All Strata: | _ | 2 | _(B) |
| 5 | | | | Percent of Domina | • | | |
| 0 1 0 1 0 1 | | Total Cove | er | Are OBL, FACW, o | or FAC: | 100.0% | _(A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | Dravelence Index | werkeheet | | |
| 1 2. | | | | Prevalence Index Total % Cove | | Itiply by: | |
| | | | | OBL species | 51 x1= | Itiply by: 51 | _ |
| 4 | | - | | FACW species | 54 x 2 = | 108 | _ |
| 5. | | | | FAC species | 5 x3= | 15 | _ |
| | | Total Cove | r | FACU species | 0 x 4 = | 0 | |
| Herb Stratum (Plot size: 5 ft) | | | | UPL species | 0 x 5 = | 0 | _ |
| Phalaris arundinacea | 49 | Yes | FACW | Column Totals: | 110 (A) | 174 | (B) |
| 2. Carex stipata | 25 | Yes | OBL | Prevalence Inde | ex = B/A = | 1.58 | _ |
| 3. Juncus nodosus | 15 | No | OBL | | | | |
| 4. Eleocharis obtusa | 10 | No | OBL | Hydrophytic Vege | | | |
| 5. Juncus dudleyi | 5 | No No | FACW | X 1 - Rapid Test | • • • | egetation | |
| 6. Juncus tenuis | 5 | No No | FAC | X 2 - Dominance | | | |
| 7. Carex tribuloides 8. | 1 | No | OBL | X 3 - Prevalence | cal Adaptations¹ (l | Provide su | nnortina |
| 9. | | | | <u> </u> | arks or on a sepa | | |
| 10. | | | - —— | | ydrophytic Vegeta | | , |
| - | 110 = | Total Cove | r | ¹ Indicators of hydri | | | • |
| Woody Vine Stratum (Plot size: | | | | be present, unless | | | muət |
| 1. | | | | Hydrophytic | · | | |
| 2. | | | | Vegetation | | | |
| | = | Total Cove | r | Present? Y | es X No | | |

Remarks: (Include photo numbers here or on a separate sheet.)

Community Type: wet meadow HGM Type: depressional Hydrophytic vegetation is present. Alisma subcordatum also present. About 30ft separates the paired points with about 1ft change in

SOIL Sampling Point: NE41 WET

| Profile Desc Depth | ription: (Describe t Matrix | o the dep | | iment tl x Featur | | ator or c | onfirm the abs | sence o | of indicators.) |
|--------------------------|---|-------------|-----------------------|-----------------------------|-------------------|------------------|--------------------|---------|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remarks |
| 0-6 | 10YR 3/1 | 100 | Color (molor) | | | | Loamy/Clay | /eV | silt loam |
| 6-14 | 10YR 5/2 | 95 | 7.5YR 4/6 | 5 | | | | | Prominent redox concentrations |
| 0-14 | 1018 5/2 | 95 | 7.51K 4/0 | | <u>C</u> | <u>M</u> | Loamy/Clay | /ey | Prominent redox concentrations |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | - |
| | | | | | | | | | |
| | | | | | | | | | |
| ¹Type: C=Co | ncentration, D=Depl | etion, RM= | Reduced Matrix, N | 1S=Masl | ked Sand | d Grains | ² Lo | cation: | PL=Pore Lining, M=Matrix. |
| Hydric Soil I | ndicators: | | | | | | Inc | dicator | s for Problematic Hydric Soils ³ : |
| Histosol (| (A1) | | Sandy Gle | yed Mat | rix (S4) | | | Coast | t Prairie Redox (A16) |
| Histic Epi | ipedon (A2) | | Sandy Red | lox (S5) | | | | Iron-N | /langanese Masses (F12) |
| Black His | stic (A3) | | Stripped M | atrix (S6 | 3) | | | Red F | Parent Material (F21) |
| Hydroger | n Sulfide (A4) | | Dark Surfa | ce (S7) | | | | Very : | Shallow Dark Surface (F22) |
| Stratified | Layers (A5) | | Loamy Mu | cky Mine | eral (F1) | | | Other | (Explain in Remarks) |
| 2 cm Mud | ck (A10) | | Loamy Gle | yed Mat | trix (F2) | | | | |
| X Depleted | Below Dark Surface | (A11) | X Depleted N | /latrix (F | 3) | | _ | | |
| | rk Surface (A12) | | Redox Dar | | ` ' | | ³ ln | | s of hydrophytic vegetation and |
| | ucky Mineral (S1) | | Depleted D | | ` ' |) | | | nd hydrology must be present, |
| 5 cm Mud | cky Peat or Peat (S3 |) | Redox Dep | ression | s (F8) | | | unles | s disturbed or problematic. |
| Restrictive L | .ayer (if observed): | | | | | | | | |
| Type: | | | | | | | | | |
| Depth (in | ches): | | | | | | Hydric Soil P | resent | ? Yes X No |
| Remarks: | | | | | | | | | |
| Hydric soils a | re present. Hydric s | oils indica | tors Depleted Belov | w Dark S | Surface (| A11) and | d Depleted Mati | ix (F3) | are satisfied. |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| | | | | | | | | | |
| - | Irology Indicators: ators (minimum of or | ao ie rogui | rod: chock all that | annly) | | | 90 | condor | y Indicators (minimum of two required) |
| | Vater (A1) | ie is requi | Water-Stai | | wes (RQ) | | | | ce Soil Cracks (B6) |
| | er Table (A2) | | Aquatic Fa | | , , | | | _ | age Patterns (B10) |
| Saturatio | | | True Aqua | | | | | _ | eason Water Table (C2) |
| Water Ma | ` ' | | Hydrogen S | | |) | | _ | ish Burrows (C8) |
| | t Deposits (B2) | | Oxidized R | | - | - | oots (C3) X | | ation Visible on Aerial Imagery (C9) |
| Drift Dep | | | Presence of | | | _ | | _ | ed or Stressed Plants (D1) |
| | or Crust (B4) | | Recent Iron | | | . , | s (C6) X | | norphic Position (D2) |
| Iron Depo | osits (B5) | | Thin Muck | Surface | (C7) | | X | FAC- | Neutral Test (D5) |
| Inundatio | n Visible on Aerial In | nagery (B7 | 7) Gauge or \ | Well Dat | a (D9) | | | _ | |
| Sparsely | Vegetated Concave | Surface (E | 38) Other (Exp | lain in R | Remarks) | | | | |
| Field Observ | ations: | | | | | | | | |
| Surface Water | er Present? Yes | S | No X | Depth (i | nches): | | | | |
| Water Table | Present? Yes | s | No X | Depth (i | nches): | | | | |
| Saturation Pr | esent? Yes | 3 | No X | Depth (i | nches): | | Wetland Hy | /drolog | y Present? Yes X No |
| (includes cap | illary fringe) | | | | | | | | |
| Describe Rec | corded Data (stream | gauge, mo | onitoring well, aeria | photos | , previou | s inspec | tions), if availab | ole: | |
| Domarka | | | | | | | | | |
| Remarks: Wetland hvdr | ology is indicated R | are vegeta | ited surface and so | il cracks | with 1∩f | ft of data | point. Mown al | ona ed | ges. Mower ruts present. Interior is |
| unmown. | g, 15 aloatod. D | c | 22 | 5. 5010 | | | F 2 | g 54; | gee a.e p. 300111. I i i i i i |
| | | | | | | | | | |

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

| Project/Site: Chicago O'Hare International Airport (O | RD) | City/Cou | nty: Chicago/ | Cook | Sa | mpling Dat | e: <u>9/11</u> | /2019 |
|---|---------------------|-------------------|---------------------|------------------------------|----------------|---------------|----------------|-----------------|
| Applicant/Owner: City of Chicago | | | | State: | IL Sa | mpling Poi | nt: NE19 | 9-104 UPI |
| Investigator(s): Brauna Hartzell, Kim Shannon, Mead | I & Hunt, Inc. | Section, T | ownship, Ran | ge: Section 4, | T40N, R12I | Ξ | | |
| Landform (hillside, terrace, etc.): plain | | | Local relief (co | oncave, convex, | none): non | e | | |
| Slope (%): <1% Lat: 41.98632398 | | | 87.87310886 | , | | ım: WGS84 | ! | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly | level (Predomi | | | NW | | | | |
| Are climatic / hydrologic conditions on the site typica | | | | No X (If | | | . \ | |
| | | | | | | | | |
| Are Vegetation, SoilX, or Hydrology | | | | | | · | NO | _ |
| Are Vegetation, Soil, or Hydrology | _naturally prob | olematic? (| If needed, exp | lain any answer | s in Remark | (S.) | | |
| SUMMARY OF FINDINGS – Attach site r | map showin | ıg samplin | g point lo | cations, trans | sects, im | portant f | eature | s, etc. |
| Hydrophytic Vegetation Present? Yes | No X | Is the | Sampled Are | ea | | | | |
| | No X | | a Wetland? | | | No X | | |
| | No X | | | | | | | |
| Remarks: | | <u> </u> | | | | | | |
| Climatic/hydrologic conditions are not typical due to | an above aver | age amount o | of rainfall durir | ig September 20 |)19. Area is | a dump site | e from the | Э |
| 1980s; soils very mixed due to stockpiling. | | | | | | | | |
| VEGETATION – Use scientific names of p | | | | | | | | |
| Tree Stratum (Plot size: 30ft) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Te | et workeh | act. | | |
| Juniperus virginiana | 3 | No No | FACU | Number of Dor | | | | |
| 2. | | | | Are OBL, FAC | | ies mai | 0 | (A) |
| 3. | | | | Total Number | | Species | | - ` ' |
| 4. | | | | Across All Stra | | ' <u> </u> | 1 | (B) |
| 5 | | | | Percent of Don | ninant Spec | ies That | | |
| | 3 = | Total Cover | | Are OBL, FAC | W, or FAC: | _ | 0.0% | _(A/B) |
| Sapling/Shrub Stratum (Plot size: | _) | | - | | | | | |
| 1. | | | | Prevalence In | | | tarta e tarra | |
| 2. 3. | | | | Total % C | over of: | | iply by: 1 | _ |
| 1 | | | | FACW species | | _ x1=_ x2= | 28 | _ |
| 5. | | | | FAC species | 2 | - x3= | 6 | _ |
| J | | Total Cover | | FACU species | | _ x4= | 324 | _ |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 10 | - x 5 = | 50 | - |
| 1. Schedonorus arundinaceus | 65 | Yes | FACU | Column Totals | | (A) | 409 | – (B) |
| 2. Poa palustris | 10 | No | FACW | Prevalence | Index = B/A | | 3.79 | - ` ' |
| 3. Symphyotrichum ericoides | 7 | No | FACU | | | | | _ |
| 4. Fragaria virginiana | 5 | No | FACU | Hydrophytic V | egetation l | ndicators: | | |
| 5. Eupatorium altissimum | 5 | No | UPL | 1 - Rapid 1 | Γest for Hyd | rophytic Ve | getation | |
| 6. Juncus dudleyi | 4 | No | FACW | 2 - Domina | ance Test is | >50% | | |
| 7. Leucanthemum vulgare | 3 | No | UPL | | ence Index i | | | |
| 8. Bidens bipinnata | 2 | No | FAC | | ological Ada | | | |
| 9. Dipsacus laciniatus | _ 2 | No | UPL | | Remarks or | • | | • |
| 10. Asclepias verticillata | _ 1 | No | FACU | | ic Hydrophy | Ū | ` . | , |
| Woody Vine Stratum (Diet size) | 105 | Total Cover | | ¹ Indicators of h | • | | | must |
| Woody Vine Stratum (Plot size:1. | _' | | - | be present, unl | เยรร นเรเนทั่ง | or proble | ппапс. | - |
| 2. | | | | Hydrophytic | | | | |
| | - | Total Cover | | Vegetation Present? | Yes | No | Х | |
| Remarks: (Include photo numbers here or on a seg | | | | | | | | |
| , , | Hydrophytic ve | getation is no | ot present. | | | | | |

Sampling Point: NE19-104 UPL

VEGETATION Continued – Use scientific names of plants.

| Tree Stratum | Absolute % Cover | Dominant Species? | Indicator Status | Definitions of Vegetation Strata: |
|--|---------------------|-------------------|---------------------|---|
| 6. 7. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 8. 9. | | | | Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 10. | | | | Herb – All herbaceous (non-woody) plants, including |
| 12. 13. | | | | herbaceous vines, regardless of size, and woody plants less than 3.28 ft tall. |
| Sapling/Shrub Stratum | 3 | =Total Cover | | Woody Vine – All woody vines greater than 3.28 ft in height. |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 40 | | - | | |
| | | | | |
| 11. | | | | |
| 12. | | | | |
| 13 | | -Tatal Causa | | |
| | | =Total Cover | | |
| Herb Stratum | | | | |
| 11. Lythrum salicaria | | | OBL | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15. | | | | |
| 16. | | | | |
| | | | | |
| 17. | | | | |
| 18. 19. | | | | |
| | | | | |
| 20. | | | | |
| 21. | | | | |
| 22 | | | | |
| | 105 | =Total Cover | | |
| Woody Vine Stratum | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| | | =Total Cover | | |
| | | | | |
| Remarks: (Include photo numbers here or on a sep | arate sheet.) | 1 | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

SOIL Sampling Point: NE19-104 UPL

| | | to the dep | | | | tor or c | onfirm the absence | of indicators.) |
|-------------------------|-------------------------|-------------|-----------------------|-----------|-------------------|------------------|------------------------|---|
| Depth | Matrix | | | (Feature | | Loc ² | Tautuna | Damadra |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | <u>%</u> | Type ¹ | LOC | Texture | Remarks |
| 0-6 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | with large rocks, building materials |
| 6-14 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | with smaller gravel |
| | | | | | | | | |
| | | | | | | | | soils mixed |
| | | | | | | | | |
| | | | | | | | | |
| | | | _ | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion. RM= | Reduced Matrix. M | IS=Masl | ked Sand | Grains. | ² Location | : PL=Pore Lining, M=Matrix. |
| Hydric Soil | | • | · | | | | | s for Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Sandy Gle | yed Mati | rix (S4) | | Coas | t Prairie Redox (A16) |
| Histic Ep | ipedon (A2) | | Sandy Red | ox (S5) | | | Iron-l | Manganese Masses (F12) |
| Black His | stic (A3) | | Stripped M | atrix (S6 | 6) | | Red | Parent Material (F21) |
| Hydroge | n Sulfide (A4) | | Dark Surfa | ce (S7) | | | Very | Shallow Dark Surface (F22) |
| Stratified | Layers (A5) | | Loamy Mu | cky Mine | eral (F1) | | Othe | r (Explain in Remarks) |
| 2 cm Mu | ck (A10) | | Loamy Gle | yed Mat | rix (F2) | | | |
| Depleted | Below Dark Surface | (A11) | Depleted M | 1atrix (F | 3) | | | |
| Thick Da | rk Surface (A12) | | Redox Dar | k Surfac | e (F6) | | ³ Indicator | s of hydrophytic vegetation and |
| Sandy M | ucky Mineral (S1) | | Depleted D | ark Sur | face (F7) | | wetla | and hydrology must be present, |
| 5 cm Mu | cky Peat or Peat (S3 |) | Redox Dep | ression | s (F8) | | unles | ss disturbed or problematic. |
| Restrictive I | _ayer (if observed): | | | | | | | |
| Type: | | | | | | | | |
| Depth (ir | iches): | | | | | | Hydric Soil Present | ? Yes No_X |
| Remarks: | | | | | | | | |
| Hydric soils a | are not present. Does | not meet | hydric soils criteria | . Pieces | s of brick, | large ro | ocks and small gravel | present; soils disturbed. |
| | | | | | | | | |
| | | | | | | | | |
| HVDDOLO | | | | | | | | |
| HYDROLO | | | | | | | | |
| | drology Indicators: | | | | | | | |
| - | cators (minimum of o | ne is requi | | | (50) | | | ry Indicators (minimum of two required) |
| | Water (A1) | | Water-Stai | | ` ' | | | ace Soil Cracks (B6) |
| | ter Table (A2) | | Aquatic Fa True Aqua | - | - | | | nage Patterns (B10) |
| Saturatio | arks (B1) | | Hydrogen S | | ` ' | | | Season Water Table (C2) fish Burrows (C8) |
| | t Deposits (B2) | | Oxidized R | | | | | ration Visible on Aerial Imagery (C9) |
| | osits (B3) | | Presence of | | | U | · ′ | ted or Stressed Plants (D1) |
| | t or Crust (B4) | | Recent Iro | | , | , | | morphic Position (D2) |
| | osits (B5) | | Thin Muck | | | | | Neutral Test (D5) |
| | on Visible on Aerial Ir | nagery (B7 | | | | | | |
| | Vegetated Concave | | · | | | | | |
| Field Obser | | • | <u> </u> | | | | | |
| Surface Wat | | S | No X | Depth (ii | nches): | | | |
| Water Table | | s | | | nches): | | | |
| Saturation P | | | | Depth (ii | _ | | Wetland Hydrolog | gy Present? Yes No _X_ |
| (includes cap | | | | | | | | |
| | corded Data (stream | gauge, mo | onitoring well, aeria | photos | , previous | inspec | tions), if available: | |
| | | | | | | | | |
| Remarks: | | | | | | | | |
| Wetland hyd | rology is neither pres | ent nor ind | licated. | | | | | |
| | | | | | | | | |

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

| Project/Site: Chicago O'Hare International Airport (OR | RD) | City/Cou | nty: Chicago | o/Cook | Sampling Date: | 9/11/2019 |
|--|---------------------|---------------|-----------------|---|---------------------------------|--------------------------|
| Applicant/Owner: City of Chicago | • | | | State: IL | • | NE19-104 WET |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Shannon | Mead & Hunt Inc | Section 1 | Township Ra | | | |
| Landform (hillside, terrace, etc.): shallow basin | , mode & Franc, inc | | | concave, convex, none): | | |
| | | | • | | | |
| Slope (%):<1% Lat: _41.98644599 | | | | | Datum: WGS84 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly I | evel (Predomi | nantly Non-h | ydric (6%)) | NWI classi | fication: PEM | |
| Are climatic / hydrologic conditions on the site typical | for this time of | year? | Yes | No X (If no, exp | plain in Remarks.) | |
| Are Vegetation, SoilX_, or Hydrology | significantly d | isturbed? A | Are "Normal (| Circumstances" present? | ? Yes <u>X</u> N | 10 |
| Are Vegetation, Soil, or Hydrology | naturally prob | lematic? (| If needed, ex | xplain any answers in Re | marks.) | |
| SUMMARY OF FINDINGS – Attach site m | ap showin | g samplin | ng point lo | cations, transects | , important fe | atures, etc. |
| Hydric Soil Present? Yes X N | lo | | Sampled A | | No | |
| Remarks: Climatic/hydrologic conditions are not typical due to a | an above aver | age amount o | of rainfall dur | ing September 2019. S | oil dump area. | |
| VEGETATION - Use scientific names of pla | ants. | | | | | |
| | Absolute | Dominant | Indicator | | | |
| Tree Stratum (Plot size: 30ft) | % Cover | Species? | Status | Dominance Test wo | rksheet: | |
| Populus deltoides | 15 | Yes | FAC | Number of Dominant | • | |
| 2. | | | | Are OBL, FACW, or F | -AC: | 4 (A) |
| 3. | | | | Total Number of Dom | inant Species | 4 (D) |
| 4 | | | | Across All Strata: | | (B) |
| 5 | | Total Cover | | Percent of Dominant Are OBL, FACW, or F | • | 00.0% (A/B) |
| Sapling/Shrub Stratum (Plot size:1. |) | | | Prevalence Index we | orkohooti | |
| 2. | | | | Total % Cover of | | ly by: |
| 2 | | | | - | ii | 50 |
| 4 | | | | | 3 x 2 = | 86 |
| 5. | | | | - | 7 x3= | 51 |
| · | | Total Cover | | · — |) x4= | 0 |
| Herb Stratum (Plot size: 5ft) | | | | · — | 0 x 5 = | 0 |
| 1. Juncus torreyi | 35 | Yes | FACW | | 10 (A) | 187 (B) |
| 2. Lythrum salicaria | 25 | Yes | OBL | Prevalence Index | = B/A = 1.7 | 0 |
| 3. Lycopus americanus | 20 | Yes | OBL | | | |
| 4. Juncus dudleyi | 6 | No | FACW | Hydrophytic Vegetat | tion Indicators: | |
| 5. Typha angustifolia | 5 | No | OBL | _x_1 - Rapid Test for | r Hydrophytic Vege | etation |
| 6. Bidens bipinnata | 2 | No | FAC | X 2 - Dominance Te | est is >50% | |
| 7. Fraxinus pennsylvanica | 2 | No | FACW | X 3 - Prevalence In | | |
| 8 | | | | l — | l Adaptations ¹ (Pro | |
| 9 | | | | data in Remark | ks or on a separate | ∍ sheet) |
| 10 | | | | Problematic Hydr | rophytic Vegetatior | າ ¹ (Explain) |
| Woody Vine Stratum (Plot size: | | Total Cover | | ¹ Indicators of hydric s be present, unless dis | • | |
| 1. | | | | Hydrophytic | | |
| 2. | | | | Vegetation | | |
| | = | Total Cover | | Present? Yes | X No | |
| Remarks: (Include photo numbers here or on a sepa | rate sheet.) | | | | | |
| Community Type: wet meadow HGM Type: depressio | nal Hydrophyt | ic vegetation | is present. T | his point is about 1ft lowe | er in elevation than | upland point. |

SOIL Sampling Point: NE19-104 WET 1

| | | to the dept | | | | ator or c | onfirm the absence o | f indicators.) |
|----------------------------|---|-----------------|----------------------|----------------------|-------------------|------------------|------------------------|---|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | x Feature % | Type ¹ | Loc ² | Texture | Remarks |
| | , , | | Color (moist) | 70 | Турс | | | Remarks |
| 0-4 | 10YR 4/2 | 100 | 40VD 5/0 | | | | Loamy/Clayey | Donation and an along a contraction of |
| 4-16 | 10YR 4/2 | 89 | 10YR 5/8 | | <u>C</u> | <u>M</u> | Loamy/Clayey | Prominent redox concentrations |
| | | | 10YR 4/6 | 10 | С | M | | Prominent redox concentrations |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=Ce | oncentration, D=De | pletion, RM= | Reduced Matrix, I | MS=Masl | ked Sand | d Grains | ² Location: | PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Indicators | s for Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Sandy Gle | eyed Matı | rix (S4) | | Coast | Prairie Redox (A16) |
| Histic Ep | pipedon (A2) | | Sandy Re | dox (S5) | | | Iron-M | langanese Masses (F12) |
| Black His | stic (A3) | | Stripped N | ∕latrix (S6 | 6) | | Red P | Parent Material (F21) |
| | n Sulfide (A4) | | Dark Surfa | ` ' | | | | Shallow Dark Surface (F22) |
| | I Layers (A5) | | Loamy Mu | • | , , | | Other | (Explain in Remarks) |
| 2 cm Mu | , , | | Loamy Gl | - | | | | |
| | Below Dark Surfac | ce (A11) | X Depleted | | - | | 3, ,, | |
| | ark Surface (A12) | | Redox Da | | ` , | | | s of hydrophytic vegetation and |
| | lucky Mineral (S1) cky Peat or Peat (S | 22) | Depleted Redox De | | ` ' |) | | nd hydrology must be present, s disturbed or problematic. |
| | | • | Redox De | pressions | 5 (ГО) | - 1 | unies | s disturbed or problematic. |
| | Layer (if observed) |): | | | | | | |
| Type: | achoo): | | _ | | | | Hydria Sail Brasant | 2 Voc V No |
| Depth (ir | | | _ | | | | Hydric Soil Present | ? Yes X No |
| Remarks: | ara procent Illudria | aaila indiaat | or Donloted Matri | ν (Γ 2) io κ | acticfied | | | |
| Hyunc sons a | are present. Hydric | Solis iliulcat | or Depleted Matri | x (F3) is s | sausneu. | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | GY | | | | | | | |
| Wetland Hy | drology Indicators | : | | | | | | |
| _ | cators (minimum of | | ed; check all that | apply) | | | Secondary | y Indicators (minimum of two required) |
| X Surface | · | • | X Water-Sta | | ves (B9) | | Surfac | ce Soil Cracks (B6) |
| X High Wa | ter Table (A2) | | Aquatic Fa | auna (B1 | 3) | | Draina | age Patterns (B10) |
| X Saturation | on (A3) | | True Aqua | atic Plant | s (B14) | | Dry-S | eason Water Table (C2) |
| Water M | arks (B1) | | Hydrogen | Sulfide C | Odor (C1 |) | Crayfi | sh Burrows (C8) |
| | t Deposits (B2) | | Oxidized I | • | | • | ` ′ | ation Visible on Aerial Imagery (C9) |
| | oosits (B3) | | Presence | | | | | ed or Stressed Plants (D1) |
| | t or Crust (B4) | | Recent Iro | | | lled Soil | ` ' | norphic Position (D2) |
| | osits (B5) | l | Thin Muck | | | | X FAC- | Neutral Test (D5) |
| | on Visible on Aerial Vegetated Concav | 0 , (| <i></i> | | | | | |
| | | e Suriace (D | Other (EX | piaiii iii ix | ciliaiks) | | T | |
| Field Obser | | os V | No | Donth / | nches): | 2 | | |
| Surface Wat Water Table | | es X es X | No No | Depth (in Depth (in | · - | 2 | | |
| Saturation P | | es X | No | Depth (ir | _ | 0 | Wetland Hydrolog | y Present? Yes X No |
| (includes car | | <u> </u> | | Dopui (ii | | | Trottana Hyarolog | y 1 1000.111 100 <u>X</u> 110 <u></u> |
| | corded Data (strear | n gauge, mo | nitoring well, aeria | al photos, | previou | s inspec | tions), if available: | |
| | | | | · , | | | · | |
| Remarks: | | | | | | | | |
| Standing wa | ter within tree samp | oling radius, v | vith an oily sheen | Wetland | d hydrold | nav is pro | esent and indicated | |
| | | - | | | a riyarok |) io pi | | |
| | | | | | a nyaron | , | | |

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

| Project/Site: Chicago O'Hare International Airport (OF | RD) | City/Cou | nty: Chicag | o/Cook or DuPage | Sampling Da | ite: <u>9/11</u> | /2019 |
|--|---------------|----------------|-----------------|---|-------------------|-------------------------|--------------|
| Applicant/Owner: City of Chicago | | | | State: IL | Sampling Po | int: NE19 | -104 WET2 |
| Investigator(s): Brauna Hartzell, Kim Shannon, Mead | & Hunt, Inc. | Section, T | ownship, Ra | ange: Section 4, T40N, | R12E | | |
| Landform (hillside, terrace, etc.): _basin, shallow swal | | | | concave, convex, none): | | | |
| Slope (%): <1% Lat: 41.98653312 | | | 87.87305178 | | Datum: WGS8 | 4 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly | loval (Prodom | | | | | | |
| <u></u> | | | | | | | |
| Are climatic / hydrologic conditions on the site typical | | | | No X (If no, exp | | | |
| Are Vegetation, SoilX, or Hydrology | =' | | | | · | No | _ |
| Are Vegetation, Soil, or Hydrology | naturally pro | blematic? (| If needed, ex | cplain any answers in Re | marks.) | | |
| SUMMARY OF FINDINGS - Attach site m | nap showii | ng samplin | g point lo | cations, transects | , important | features | s, etc. |
| Lludraphytic Vagatatian Procent? Vag. V | lo. | lo the | Compled A | | | | |
| | 10 10 | | Sampled A | | No | | |
| <u> </u> | lo | " | ra Wellana | . 103 <u>X</u> | | | |
| Remarks: | | <u> </u> | | | | | |
| Climatic/hydrologic conditions are not typical due to | an above ave | rage amount o | of rainfall dur | ing September 2019. So | il dump site. | | |
| | | | | | | | |
| VEGETATION – Use scientific names of pl | ants. | | | | | | |
| | Absolute | Dominant | Indicator | | | | |
| Tree Stratum (Plot size: 30ft) | % Cover | Species? | Status | Dominance Test wo | | | |
| Populus deltoides 2. | 40 | Yes | FAC | Number of Dominant | | 5 | (\\) |
| 2 | | | | Are OBL, FACW, or F | _ | J | _(A) |
| | | | | Total Number of Dom Across All Strata: | inant Species | 6 | (B) |
| 5. | | | | Percent of Dominant | - Species That | | _('') |
| | 40 | =Total Cover | | Are OBL, FACW, or F | • | 83.3% | (A/B) |
| Sapling/Shrub Stratum (Plot size: 15ft |) | | | | _ | | _` ′ |
| Elaeagnus angustifolia | 5 | Yes | FACU | Prevalence Index we | orksheet: | | |
| 2. | | | | Total % Cover of | f: Mu' | tiply by: | _ |
| 3. | | | | OBL species 2 | 5 x 1 = | 25 | _ |
| 4 | | | | FACW species 7 | 2 x 2 = _ | 144 | _ |
| 5 | | | | FAC species 4 | 2 x 3 = | 126 | _ |
| | 5 | =Total Cover | | · — | 5 x 4 = _ | 20 | _ |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 1 x 5 = _ | 5 | _ |
| 1. Juncus torreyi | 30 | Yes | FACW | | 45 (A) _ | 320 | _ (B) |
| 2. Lythrum salicaria | 25 | Yes | OBL | Prevalence Index | = B/A = | 2.21 | _ |
| 3. Phragmites australis | 20 | Yes | FACW | Hudranbudia Vanata | tion Indicators | _ | |
| Juncus dudleyi Fraxinus pennsylvanica | 20 | Yes | FACW | Hydrophytic Vegetat | | | |
| Bidens bipinnata | 2 | No No | FACW FAC | 1 - Rapid Test for X 2 - Dominance Te | | egetation | |
| 7. Dipsacus laciniatus | 1 | No | UPL | X 3 - Prevalence In | | | |
| 8. | · ——— | | <u> </u> | 4 - Morphological | | Provide su | pporting |
| 9. | | | | | ks or on a sepa | | |
| 10. | | | | Problematic Hydr | ophytic Vegeta | tion ¹ (Expl | ain) |
| | 100 | =Total Cover | | ¹ Indicators of hydric s | | | , |
| Woody Vine Stratum (Plot size: |) | | | be present, unless dis | | | |
| 1. | | | | Hydrophytic | | | |
| 2. | | | | Vegetation | | | |
| | | =Total Cover | | Present? Yes | X No | | |
| Remarks: (Include photo numbers here or on a sepa | arate sheet.) | | | | | | |
| Community Type: wet meadow HGM Type: de | pressional I | Hydrophytic ve | egetation is p | resent. | | | |

SOIL Sampling Point: NE19-104 WET2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth | Matrix | | Redo | x Featur | es | | | | |
|-------------------------|----------------------|--------------|-----------------------|------------|-------------------|------------------|--------------------|----------|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | <u> </u> | Remarks |
| 0-4 | 10YR 3/2 | 100 | | | | | Loamy/Cla | ayey | clay loam |
| 4-16 | 10YR 3/2 | 92 | 10YR 4/6 | 3 | С | M | Loamy/Cla | ayey | Prominent redox concentrations |
| | | | 10YR 5/1 | 5 | | M | | | gravel and pebbles in layer |
| | | | | | | | | | graver and possess in layer |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ¹ Type: C=Ce | oncentration, D=De | pletion, RM= | Reduced Matrix, N | 1S=Mas | ked Sand | d Grains | . ² l | _ocation | : PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Ir | ndicator | s for Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Sandy Gle | yed Mat | rix (S4) | | | Coas | t Prairie Redox (A16) |
| Histic Ep | ipedon (A2) | | Sandy Red | lox (S5) | | | _ | Iron-N | Manganese Masses (F12) |
| Black His | stic (A3) | | Stripped M | atrix (S6 | 3) | | _ | Red I | Parent Material (F21) |
| Hydroge | n Sulfide (A4) | | Dark Surfa | ce (S7) | | | _ | Very | Shallow Dark Surface (F22) |
| Stratified | Layers (A5) | | Loamy Mu | cky Mine | eral (F1) | | _ | Other | (Explain in Remarks) |
| 2 cm Mu | ck (A10) | | Loamy Gle | yed Ma | trix (F2) | | | | |
| Depleted | l Below Dark Surfac | e (A11) | Depleted N | /latrix (F | 3) | | | | |
| Thick Da | rk Surface (A12) | | X Redox Dar | k Surfac | ce (F6) | | ³ l | ndicator | s of hydrophytic vegetation and |
| Sandy M | ucky Mineral (S1) | | Depleted D | ark Sur | face (F7) |) | | wetla | nd hydrology must be present, |
| 5 cm Mu | cky Peat or Peat (S | 3) | Redox Dep | ression | s (F8) | | | unles | s disturbed or problematic. |
| Restrictive I | _ayer (if observed) |): | | | | | | | |
| Type: | | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil | Present | ? Yes X No |
| HADBOLO | NCV | | | | | | | | |
| HYDROLO | | | | | | | | | |
| - | drology Indicators | | | | | | _ | | |
| | cators (minimum of | one is requi | | | (50) | | <u>S</u> | | y Indicators (minimum of two required) |
| | Water (A1) | | X Water-Stai | | | | _ | _ | ce Soil Cracks (B6) |
| | ter Table (A2) | | Aquatic Fa | ` | , | | _ | | age Patterns (B10) |
| X Saturation | arks (B1) | | True Aqua Hydrogen | | ` , | ١ | _ | _ | Season Water Table (C2) ish Burrows (C8) |
| | it Deposits (B2) | | Oxidized R | | | | oots (C3) | _ ′ | ration Visible on Aerial Imagery (C9) |
| | osits (B3) | | Presence | | | U | | _ | ed or Stressed Plants (D1) |
| | t or Crust (B4) | | Recent Iro | | | ` ' | s (C6) | | norphic Position (D2) |
| | osits (B5) | | Thin Muck | | | | · · · | _ | Neutral Test (D5) |
| | on Visible on Aerial | Imagery (B7 | | | | | <u> </u> | | |
| | Vegetated Concav | | | | | | | | |
| Field Obser | vations: | <u> </u> | <u> </u> | | | | | | |
| Surface Wat | | es | No X | Depth (i | nches): | | | | |
| Water Table | Present? Y | es X | No | Depth (i | nches): | 16 | | | |
| Saturation P | resent? Y | es X | No | Depth (i | nches): | 6 | Wetland F | lydrolog | gy Present? Yes X No |
| (includes cap | oillary fringe) | · <u></u> | | | _ | | | | |
| Describe Re | corded Data (strear | n gauge, mo | onitoring well, aeria | l photos | , previou | s inspec | ctions), if availa | ıble: | |
| Remarks: | | | | | | | | | |
| Wetland hyd | rology present and | indicated. C | rayfish burrows are | commo | on in wetl | land but | not present at | data po | int. |
| | | | | | | | | | |
| | | | | | | | | | |

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

| Project/Site: Chicago O'Hare International Airport (O | PRD) | City/Cou | inty: Chicago/ | Cook | Sar | npling Dat | e: <u>9/11/</u> | /2019 |
|---|-----------------|----------------|-------------------------------|------------------------------|------------------|-------------|-----------------|--------------|
| Applicant/Owner: City of Chicago | | | | State: | IL San | npling Poir | nt: NE19- | -104 WET3 |
| Investigator(s): Brauna Hartzell, Kim Shannon, Mead | d & Hunt, Inc. | Section, | Township, Ran | ge: Section 4, | T40N, R12E | | | |
| Landform (hillside, terrace, etc.): basin | | | Local relief (co | ncave, convex, | none): conc | ave | | |
| Slope (%): <1% Lat: 41.98613701 | | | -87.87292522 | | | | | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly | / level (Predom | | | | l classification | | | |
| Are climatic / hydrologic conditions on the site typica | | | Yes | | | | .) | |
| | | | | | | | | |
| Are Vegetation , Soil X , or Hydrology | | | | | | | No | _ |
| Are Vegetation, Soil, or Hydrology | _naturally pro | blematic? (| (If needed, expl | ain any answer | s in Remarks | .) | | |
| SUMMARY OF FINDINGS – Attach site i | map showii | ng samplir | ng point loc | ations, tran | sects, imp | ortant f | eatures | s, etc. |
| Lludranhytia Vagatatian Dragant2 Vag V | No | lo the | Compled Are | | | | | |
| | No | | e Sampled Are n a Wetland? | | <u> </u> | 0 | | |
| | No | Within | ii a wellanu: | 163 | | <u> </u> | | |
| Remarks: | | | | | | | | |
| Soil dump site and includes building materials, rock | s and gravel. (| Climatic/hydro | ologic conditions | s are not typica | l due to an ab | ove avera | ge amour | nt of |
| rainfall during September 2019. | - | • | | • | | | - | |
| VEGETATION – Use scientific names of p | olants. | | | | | | | |
| | Absolute | Dominant | Indicator | | | | | |
| Tree Stratum (Plot size: 30ft) | % Cover | Species? | Status | Dominance To | est workshe | et: | | |
| Populus deltoides | 10 | Yes | FAC | Number of Do | | es That | | |
| 2. | | | | Are OBL, FAC | W, or FAC: | | 3 | _(A) |
| 3. | | | | Total Number | | Species | • | (D) |
| 4 | | | | Across All Stra | | | 3 | _(B) |
| 5 | 10 | =Total Cover | | Percent of Dor | • | | 100.0% | (Δ/R) |
| Sapling/Shrub Stratum (Plot size: | | - Total Cover | | Are OBL, FAC | VV, OI I AC. | | 100.076 | _(A/D) |
| 1. | _′ | | | Prevalence In | dex workshe | eet: | | |
| 2. | | | | Total % C | | | iply by: | |
| 3. | | | | OBL species | 18 | x 1 = | 18 | _ |
| 4. | | | | FACW species | s 65 | x 2 = | 130 | _ |
| 5 | _ | | | FAC species | 10 | x 3 = | 30 | _ |
| | | =Total Cover | | FACU species | 0 | x 4 = | 0 | _ |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 0 | x 5 = | 0 | _ |
| 1. Juncus torreyi | 30 | Yes | FACW | Column Totals | | (A) | 178 | _ (B) |
| 2. Juncus dudleyi | 30 | Yes | FACW | Prevalence | Index = B/A | = 1 | .91 | - |
| 3. Lythrum salicaria | | No No | OBL OBL | Hudrophytic \ | /ogototion In | diostoro | | |
| Scirpus pendulus Poa palustris | | No | FACW | Hydrophytic \ | Test for Hydro | | | |
| 6. Carex stipata | 3 | No | OBL | X 2 - Domina | - | | getation | |
| 7. | | | | X 3 - Prevale | | | | |
| 8. | _ | | | | ological Adap | | rovide su | pporting |
| 9. | | | - | data in | Remarks or c | n a separa | ate sheet) |) |
| 10. | | | | Problemat | ic Hydrophyti | c Vegetati | on¹ (Expl | ain) |
| | 83 | =Total Cover | | ¹ Indicators of h | nydric soil and | d wetland h | nydrology | must |
| Woody Vine Stratum (Plot size: | _) | | | be present, un | less disturbed | d or proble | matic. | |
| 1 | | | | Hydrophytic | | | | |
| 2. | | | | Vegetation | | | | |
| | | =Total Cover | | Present? | Yes X | No_ | | |
| Remarks: (Include photo numbers here or on a seg | | | | | | | | |
| Community Type: wet meadow HGM Type: depi | ressional Hyd | drophytis vege | etation is prese | nt. | | | | |

SOIL Sampling Point: NE19-104 WET3

| Profile Desc | cription: (Describe | e to the dept | h needed to doc | ument tl | ne indica | tor or c | confirm the absence of | of indicators.) |
|------------------------|-----------------------|---|---------------------|------------|-------------------|------------------|-------------------------|---|
| Depth | Matrix | | Redo | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-6 | 10YR 4/1 | 95 | 7.5YR 4/6 | 5 | С | М | Loamy/Clayey | Prominent redox concentrations |
| 6-12 | 10YR 4/1 | 98 | 5YR 4/6 | 2 | С | M | Loamy/Clayey | Prominent redox concentrations |
| 12-16 | 7.5YR 5/1 | 80 | 7.5YR 4/6 | 20 | С | М | Loamy/Clayey | Prominent redox concentrations |
| | | | | | | | | previous 2 layers are loamy clay |
| | | | | | | | | rocks present in 6-12" |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=C | oncentration, D=De | pletion RM= | Reduced Matrix 1 | MS=Mas | ed Sano | Grains | ² I ocation: | PL=Pore Lining, M=Matrix. |
| Hydric Soil | | p. c. | | | | | | s for Problematic Hydric Soils ³ : |
| Histosol | | | Sandy Gle | eyed Mat | rix (S4) | | | t Prairie Redox (A16) |
| | oipedon (A2) | | Sandy Re | - | , | | | Manganese Masses (F12) |
| Black Hi | | | Stripped N | , , | 5) | | | Parent Material (F21) |
| Hydroge | n Sulfide (A4) | | Dark Surfa | ace (S7) | , | | Very | Shallow Dark Surface (F22) |
| Stratified | d Layers (A5) | | Loamy Mu | icky Mine | eral (F1) | | Other | (Explain in Remarks) |
| 2 cm Mu | ıck (A10) | | Loamy Gl | eyed Mat | rix (F2) | | | |
| Depleted | d Below Dark Surfa | ce (A11) | X Depleted I | Matrix (F | 3) | | | |
| Thick Da | ark Surface (A12) | | Redox Da | rk Surfac | e (F6) | | ³ Indicators | s of hydrophytic vegetation and |
| Sandy M | lucky Mineral (S1) | | Depleted I | Dark Sur | face (F7) | | wetla | nd hydrology must be present, |
| 5 cm Mu | icky Peat or Peat (S | S3) | Redox De | pression | s (F8) | | unles | s disturbed or problematic. |
| Restrictive | Layer (if observed |): | | | | | | |
| Type: | | | | | | | | |
| Depth (in | nches): | | | | | | Hydric Soil Present | ? Yes_X_ No |
| Remarks: | | | | | | | | |
| Rutting pres | ent. Hydric soils are | present. Hy | dric soils indicato | r Deplete | ed Matrix | (F3) is | satisfied. | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLC |)GY | | | | | | | |
| Wetland Hy | drology Indicators |): | | | | | | |
| Primary Indi | cators (minimum of | one is requir | ed; check all that | apply) | | | Secondar | y Indicators (minimum of two required) |
| Surface | Water (A1) | | X Water-Sta | ined Lea | ves (B9) | | Surfa | ce Soil Cracks (B6) |
| High Wa | iter Table (A2) | | Aquatic Fa | auna (B1 | 3) | | Drain | age Patterns (B10) |
| Saturation | on (A3) | | True Aqua | itic Plant | s (B14) | | Dry-S | season Water Table (C2) |
| Water M | larks (B1) | | Hydrogen | | | | | ish Burrows (C8) |
| | nt Deposits (B2) | | Oxidized F | | | _ | | ation Visible on Aerial Imagery (C9) |
| | oosits (B3) | | Presence | | | | | ed or Stressed Plants (D1) |
| | at or Crust (B4) | | Recent Iro | | | lled Soil | | norphic Position (D2) |
| | oosits (B5) | | Thin Muck | | . , | | X FAC- | Neutral Test (D5) |
| l | on Visible on Aerial | 0 , . | · | | | | | |
| | Vegetated Conca | e Surface (B | 8)Other (Exp | olain in R | emarks) | | 1 | |
| Field Obser | | | | _ | | | | |
| Surface Wat | | 'es | No X | | nches): _ | | | |
| Water Table | | 'es | No X | | nches): | | Wadan | |
| Saturation P | | 'es | No X | Depth (ii | nches):_ | | Wetland Hydrolog | yy Present? Yes X No |
| | pillary fringe) | | nitoring well coris | l photos | provious | inanaa | tions) if available. | |
| Describe Re | corded Data (stream | ıı yauye, mo | moning well, aeria | ıı priotos | , previous | sinspec | uons), ii avallable: | |
| Remarks: | | | | | | | | |
| | lrology is indicated. | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)

| Project/Site: Chicago O'Hare International Airport (C | ORD) | Citv/Cou | nty: Chicago | o/Cook | Sampling Date | e: 9/12/ | 2019 |
|---|-------------------|--------------|---------------|-----------------------------------|--------------------------------|------------------------|----------|
| Applicant/Owner: City of Chicago | , , , , | | <u></u> | State: IL | Sampling Poin | | -105 UPL |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Shann | on Mead & Hunt In | s Section T | ownship Ra | | • | | |
| Landform (hillside, terrace, etc.): midslope | | | | concave, convex, none) | | | |
| | | | • | · | | | |
| Slope (%): 2-3 Lat: 41.98601294 | | | | | Datum: WGS84 | | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly | | | | | | | |
| Are climatic / hydrologic conditions on the site typical | | | Yes | | | | |
| Are Vegetation, SoilX_, or Hydrology | significantly o | listurbed? A | re "Normal (| Circumstances" present | ? Yes X | No | _ |
| Are Vegetation, Soil, or Hydrology | naturally prob | olematic? (| If needed, ex | oplain any answers in Re | emarks.) | | |
| SUMMARY OF FINDINGS – Attach site | map showin | ıg samplin | g point lo | ocations, transects | s, important f | eatures | , etc. |
| Hydrophytic Vegetation Present? Yes | No X | Is the | Sampled A | rea | | | |
| Hydric Soil Present? Yes | No X | withir | n a Wetland | ? Yes | No X | | |
| | No X | | | | | | |
| Remarks: | | • | | | | | |
| Area is a stockpiling and dump site and has very di | isturbed soils. | | | | | | |
| VEGETATION – Use scientific names of p | nlants | | | | | | |
| TESTIATION OSC SCIENCING HARMES OF | Absolute | Dominant | Indicator | <u> </u> | | | |
| <u>Tree Stratum</u> (Plot size:) | % Cover | Species? | Status | Dominance Test wo | rksheet: | | |
| 1 | _ | | | Number of Dominant | Species That | | |
| 2 | | | | Are OBL, FACW, or | FAC: | 1 | (A) |
| 3 | | | | Total Number of Don | ninant Species | | |
| 4 | | | | Across All Strata: | _ | 2 | _(B) |
| 5 | | T-4-1 0 | | Percent of Dominant | • | 50.00 / | (A (D) |
| Sanling/Shrub Stratum (Dlot aiza: | | =Total Cover | | Are OBL, FACW, or | | 50.0% | _(A/B) |
| Sapling/Shrub Stratum (Plot size: | | | | Prevalence Index w | orkshoot: | | |
| 1 | | | | Total % Cover of | | ply by: | |
| 3. | | | | - | 0 x 1 = | 0 | - |
| 4. | | | | · — | 10 x 2 = | 80 | _ |
| 5. | | | | | 0 x 3 = | 0 | _ |
| | ₌ | Total Cover | | FACU species | 5 x 4 = | 20 | |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 55 x 5 = | 275 | _ |
| Dipsacus laciniatus | 41 | Yes | UPL | | 00 (A) | 375 | (B) |
| 2. Phragmites australis | 40 | Yes | FACW | Prevalence Index | = B/A = <u>3</u> | .75 | _ |
| 3. Eupatorium altissimum | _ 5 | No No | UPL | | | | |
| 4. Ulmus pumila | _ 5 | No No | UPL | Hydrophytic Vegeta | | notation | |
| 5. Symphyotrichum ericoides6. Leucanthemum vulgare | 3 3 | No No | FACU_UPL | 2 - Dominance T | r Hydrophytic Veo | getation | |
| 7. Solidago canadensis | | No | FACU | 3 - Prevalence Ir | | | |
| Sporobolus vaginiflorus | | No | UPL | | l Adaptations ¹ (Pr | ovide sur | porting |
| 9. | <u> </u> | | | | ks or on a separa | | - |
| 10. | | | | Problematic Hyd | rophytic Vegetation | on ¹ (Expla | ain) |
| | 100 = | Total Cover | | ¹ Indicators of hydric | | | • |
| Woody Vine Stratum (Plot size: |) | | | be present, unless di | | | |
| 1. | _ | | | Hydrophytic | | | |
| | | | | | | | |
| 2 | | | | Vegetation | | | |

SOIL Sampling Point: NE19-105 UPL

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---|--------------------------|---|-----------|-------------------|--------------------------------------|---|-------------------------------|
| Depth Matrix | | Redox Features | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | <u>%</u> | Type ¹ | Loc ² | Texture | Remarks |
| 0-3 | 10YR 3/1 | 100 | _ | | | | Loamy/Clayey | |
| 3-9 | 10YR 4/3 | 94 | 10YR 5/6 | 1 | <u>C</u> | М | Loamy/Clayey | Distinct redox concentrations |
| | | | 10YR 4/1 | 5 | D | М | | mixed layer with rocks |
| 9-16 | 10YR 4/1 | 100 | | | | | Loamy/Clayey | |
| | | | | | | | <u> </u> | |
| | | | _ | | | | | - |
| | | | _ | | | | | |
| | | | | | | | | <u> </u> |
| ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. | | | | | | | | |
| Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : | | | | | | | | |
| Histosol | ` ' | | Sandy Gleyed Matrix (S4) | | | | Coast Prairie Redox (A16) | |
| | ipedon (A2) | | Sandy Redox (S5) | | | | Iron-Manganese Masses (F12) | |
| Black His | ` ' | | Stripped Matrix (S6) | | | | Red Parent Material (F21) | |
| | n Sulfide (A4) | | Dark Surface (S7) | | | | Very Shallow Dark Surface (F22) | |
| Stratified | | Loamy Mucky Mineral (F1) | | | | er (Explain in Remarks) | | |
| 2 cm Muck (A10)Loamy Gleyed Matrix (F2) | | | | | | | | |
| Depleted Below Dark Surface (A11)Depleted Matrix (F3) | | | | | | | 3 | |
| | rk Surface (A12) | | Redox Dark Surface (F6) | | | | ³ Indicators of hydrophytic vegetation and | |
| | ucky Mineral (S1) | | Depleted Dark Surface (F7) | | | | wetland hydrology must be present, | |
| 5 cm Mucky Peat or Peat (S3)Redox Depressions (F8 | | | | | s (F8) | | unl | ess disturbed or problematic. |
| Restrictive L | .ayer (if observed): | | | | | | | |
| Туре: | | | | | | | | |
| Depth (inches): Hydric Soil Present? Yes I | | | | | | | | nt? Yes No X |
| Remarks: | | | | | | | | |
| Hydric soils are not present. Does not meet hydric soils criteria. | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLOGY | | | | | | | | |
| Wetland Hydrology Indicators: | | | | | | | | |
| Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) | | | | | | | | |
| Surface \ | Nater (A1) | Water-Stai | Water-Stained Leaves (B9) | | | | Surface Soil Cracks (B6) | |
| High Wa | ter Table (A2) | Aquatic Fa | Aquatic Fauna (B13) | | | | inage Patterns (B10) | |
| Saturatio | n (A3) | True Aquat | True Aquatic Plants (B14) | | | | -Season Water Table (C2) | |
| Water Ma | arks (B1) | Hydrogen S | Hydrogen Sulfide Odor (C1) | | | | yfish Burrows (C8) | |
| Sedimen | t Deposits (B2) | Oxidized R | Oxidized Rhizospheres on Living Roc | | | | uration Visible on Aerial Imagery (C9) | |
| Drift Dep | osits (B3) | Presence of | Presence of Reduced Iron (C4) | | | | nted or Stressed Plants (D1) | |
| Algal Ma | t or Crust (B4) | Recent Iron | Recent Iron Reduction in Tilled Soils (C6 | | | | omorphic Position (D2) | |
| Iron Deposits (B5) Thin Muck Surface (C7) | | | | | | FA | C-Neutral Test (D5) | |
| Inundation Visible on Aerial Imagery (B7)Gauge or Well Data (D9) | | | | | | | | |
| Sparsely | Vegetated Concave | Surface (I | 38) Other (Exp | lain in R | lemarks) | | | |
| Field Observ | vations: | | | | | | | |
| Surface Water | er Present? Ye | s | No X | Depth (i | nches): _ | | | |
| Water Table | /ater Table Present? Yes No X Depth (inches): | | | | | | | |
| Saturation Pr | No X | No X Depth (inches): | | | | Wetland Hydrology Present? Yes No _X | | |
| (includes capillary fringe) | | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | | | | |
| | | | | | | | | |
| Remarks: | rology is poither as | ont no-!- | diantad | | | | | |
| Wetland hydrology is neither present nor indicated. | | | | | | | | |
| | | | | | | | | |

| Project/Site: Chicago O'Hare Interna | itional Airport (ORD) |) | City/Cou | nty: Chicago | o/Cook | Sampling [|)ate: <u>9/1</u> | 12/2019 |
|---|-----------------------|---------------------|-------------------|---------------------|---------------------------|--|------------------|------------|
| Applicant/Owner: City of Chicago |) | | | | State: | IL Sampling F | oint: NE | 19-105 WET |
| Investigator(s): Brauna Hartzell, Kim | Shannon, Mead & F | lunt, Inc. | Section, 7 | Гownship, Ra | inge: Section 4, | T40N, R12E | | |
| Landform (hillside, terrace, etc.): sh | allow basin | | | Local relief (| concave, convex, | none): concave | | |
| Slope (%): <1% Lat: 41.98603 | | | | • | 3 | | 384 | |
| Soil Map Unit Name: 805A - Orthent | | el (Predomi | | | | | | |
| · | | | | | | | | |
| Are climatic / hydrologic conditions o | | | - | | | no, explain in Rema | | |
| Are Vegetation, Soil_X_, or | | | | | | | _ No | |
| Are Vegetation, Soil, or | Hydrologyna | iturally prob | olematic? (| If needed, ex | plain any answer | s in Remarks.) | | |
| SUMMARY OF FINDINGS – | Attach site map | showin | g samplir | ng point lo | cations, tran | sects, importan | t feature | es, etc. |
| Hydrophytic Vegetation Present? | Yes X No | | Is the | Sampled A | rea | | | |
| Hydric Soil Present? | | | withi | n a Wetland | ? Yes | X No | _ | |
| Wetland Hydrology Present? | Yes X No | | | | | | _ | |
| Remarks: | | | Į. | | | | | |
| Climatic/hydrologic conditions are n stockpiling/dumping. | ot typical due to an | above aver | age amount | of rainfall dur | ing September 2 | 019. Soils disturbed | due to | |
| VEGETATION – Use scientifi | c names of plan | ts. | | | | | | |
| <u>Tree Stratum</u> (Plot size: |) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance T | est worksheet: | | |
| 1. | | | | | Number of Do | minant Species That | | |
| 2. | | | | | Are OBL, FAC | W, or FAC: | 1 | (A) |
| 3 | | | | | Total Number | of Dominant Species | ; | |
| 4 | | | | | Across All Stra | ata: | 2 | (B) |
| 5 | | | | | | minant Species That | | (4.5) |
| Cardinar/Charde Charter (Dist | i | | Total Cover | | Are OBL, FAC | SW, or FAC: | 50.0% | (A/B) |
| | size:) | | | | Duevelence In | idex worksheet: | | |
| 1. 2. | | | | | Total % C | | lultiply by: | |
| | | | | | OBL species | 6 x 1 = | | _ |
| 4. | - | | | | FACW species | | | |
| 5. | | - | | | FAC species | 4 x 3 = | | |
| | | = | Total Cover | | FACU species | 0 x 4 = | 0 | |
| Herb Stratum (Plot size: | 5ft) | | | | UPL species | 29 x 5 = | 145 | |
| Phragmites australis | | 33 | Yes | FACW | Column Totals | 85 (A) | 255 | (B) |
| 2. Dipsacus laciniatus | | 25 | Yes | UPL | Prevalence | Index = B/A = | 3.00 | |
| 3. Solidago sempervirens | | 10 | No | FACW | | | | |
| 4. Lythrum salicaria | | 6 | No | OBL | | egetation Indicator | | |
| 5. Eupatorium serotinum | | 4 | No | FAC | | Test for Hydrophytic | Vegetation | 1 |
| 6. Leucanthemum vulgare | | 4 | No No | UPL | | ance Test is >50% | | |
| 7. Juncus torreyi | | 3 | No | FACW | l — | ence Index is ≤3.0 ¹ | (Duay dala a | |
| 8. | - | | | | | ological Adaptations ¹ Remarks or on a ser | • | |
| 9. | | | | | | tic Hydrophytic Vege | | • |
| 10 | | 85 = | Total Cover | | | | | |
| Woody Vine Stratum (Plot s | size:) | | . Juli Ouvel | | | nydric soil and wetlar less disturbed or pro | | gy must |
| 1 | | | | | • | ta.224 01 p10 | | |
| 2. | | | | | Hydrophytic Vegetation | | | |
| _ | | | Total Cover | | Present? | Yes X No |) | |
| Remarks: (Include photo numbers | here or on a senara | te sheet \ | | | L | | | |
| Community Type: wet meadow H | • | , | ohvtic vegeta | tion is preser | nt. 15% bare grou | ınd. | | |

SOIL Sampling Point: NE19-105 WET

| Profile Desc | cription: (Describe t | o the dep | oth needed to doc | ument t | he indica | ator or c | onfirm the absence of | of indicators.) |
|----------------------------------|---|-------------|-----------------------|-----------------|------------------------|---------------------------------|-------------------------|--|
| Depth | Matrix | | Redo | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-4 | 10YR 3/2 | 98 | 5YR 4/6 | 2 | <u>C</u> | PL | Loamy/Clayey | Prominent redox concentrations |
| 4-8 | 10YR 4/1 | 55 | 7.5YR 4/6 | 5 | С | М | | Prominent redox concentrations |
| | 10YR 3/2 | 20 | | | | | Loamy/Clayey | |
| | 5YR 2.5/1 | 20 | | | | | Loamy/Clayey | clay loam |
| 8-16 | 10YR 4/1 | 100 | | | | | Loamy/Clayey | clay loam |
| | | | | | | | <u> </u> | oldy loain |
| | | | | | | | | |
| 1T C-C | tustian D-Daul | | -Dadward Matrix N | 40-14 | | | 21 | DI - Dans Lining M-Matrix |
| Hydric Soil | oncentration, D=Depl | etion, Rivi | =Reduced Matrix, N | /IS=IVIAS | ked Sand | i Grains. | | : PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ : |
| Histosol | | | Sandy Gle | ved Mat | riv (S4) | | | t Prairie Redox (A16) |
| | pipedon (A2) | | Sandy Red | - | | | | Manganese Masses (F12) |
| | stic (A3) | | Stripped M | , , | | | | Parent Material (F21) |
| | n Sulfide (A4) | | Dark Surfa | • | 5) | | | Shallow Dark Surface (F22) |
| | d Layers (A5) | | Loamy Mu | | eral (E1) | | | (Explain in Remarks) |
| | ick (A10) | | Loamy Gle | • | , , | | | (Explain in Remarks) |
| | d Below Dark Surface | (A11) | Depleted N | | | | | |
| l ' | ark Surface (A12) | (Δ11) | X Redox Dar | | ³ Indicator | s of hydrophytic vegetation and | | |
| | lucky Mineral (S1) | | Depleted [| | | nd hydrology must be present, | | |
| | icky Peat or Peat (S3 |) | X Redox De | | | s disturbed or problematic. | | |
| Restrictive Layer (if observed): | | | | | | | 45 | o aloranzou or prozioniano. |
| Type: | Layer (ii observed). | | | | | | | |
| Depth (ii | ? Yes X No | | | | | | | |
| Remarks: | | | Hydric Soil Present | 1es <u>X</u> NO | | | | |
| | zospheres at 0-4 inch e (F6) and Redox Dep | - | | ed with g | gravel at 4 | 4-8 inch | layer. Hydric soils are | present. Hydric soils indicators Redox |
| HYDROLO | | | | | | | | |
| - | drology Indicators: | ! | | 1> | | | 0 | and the disease of the control of th |
| - | cators (minimum of o | ne is requ | | | (DO) | | | y Indicators (minimum of two required) |
| | Water (A1) | | X Water-Sta | | ` ' | | | ce Soil Cracks (B6) |
| Saturation | ater Table (A2) | | Aquatic Fa | | - | | | age Patterns (B10) Season Water Table (C2) |
| | larks (B1) | | Hydrogen | | . , | ` | | ish Burrows (C8) |
| | nt Deposits (B2) | | X Oxidized F | | - | | | ration Visible on Aerial Imagery (C9) |
| | posits (B3) | | Presence | | | _ | | ed or Stressed Plants (D1) |
| | at or Crust (B4) | | Recent Iro | | | | | norphic Position (D2) |
| | osits (B5) | | Thin Muck | | | nea con | ` ' | Neutral Test (D5) |
| | on Visible on Aerial In | nagery (B | | | , , | | <u> </u> | rtediai rest (Bo) |
| | Vegetated Concave | • • • | · — · | | | | | |
| Field Obser | | | | | , | | T | |
| Surface Wat | | 2 | No X | Denth (i | nches): | | | |
| Water Table | | | | Depth (i | | | | |
| Saturation P | | | | Depth (i | _ | | Wetland Hydrolog | y Present? Yes X No |
| | pillary fringe) | <u> </u> | | _ op (. | _ | | | <u> </u> |
| | corded Data (stream | gauge, m | onitoring well, aeria | l photos | , previou | s inspec | tions), if available: | |
| Remarks: | | | | | | | | |
| | essional area. Wetlar | nd hydrolo | gy is indicated. | | | | | |
| | | , | ·- | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (OR | lD) | City/Co | unty: Chicag | o/Cook | Sampling D | ate: <u>9/1</u> | 3/2019 |
|--|---------------|------------------|-----------------|------------------------|--|-----------------|-------------|
| Applicant/Owner: City of Chicago | | | • | State: | IL Sampling P | oint: NE1 | 19-109 UPL |
| Investigator(s): Brauna Hartzell, Kim Shannon, Mead | & Hunt, Inc. | Section, | Township, Ra | ange: Section 4, | T40N, R12E | | |
| Landform (hillside, terrace, etc.): midslope | | | Local relief (| concave, convex, | none): convex | | |
| Slope (%): 2-3 Lat: 41.98661737 | | I ona: | ' | 1 | · • | 84 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly le | oval (Prodom | | | | | <u> </u> | |
| | | | | • | • | | |
| Are climatic / hydrologic conditions on the site typical | | - | | | no, explain in Remar | | |
| Are Vegetation, Soil, or Hydrology | | | | | | No | _ |
| Are Vegetation, Soil, or Hydrology | naturally pro | blematic? | (If needed, ex | xplain any answer | s in Remarks.) | | |
| SUMMARY OF FINDINGS – Attach site m | ap showir | ng sampli | ng point lo | ocations, tran | sects, importan | t feature | es, etc. |
| Hydrophytic Vegetation Present? Yes N | o X | ls th | e Sampled A | rea | | | |
| | o X | | in a Wetland | | No X | | |
| | 0 | | | | | • | |
| Remarks: | | | | | | | |
| Climatic/hydrologic conditions are not typical due to a | an above ave | rage amount | of rainfall dur | ring September 20 | 019. | | |
| | | | | | | | |
| VEGETATION – Use scientific names of pla | ants. | | | | | | |
| | Absolute | Dominant | Indicator | | | | |
| Tree Stratum (Plot size:) | % Cover | Species? | Status | Dominance T | est worksheet: | | |
| 1 | | | | Number of Do | minant Species That | | |
| 2 | | | | Are OBL, FAC | W, or FAC: | 0 | (A) |
| 3 | | | | | of Dominant Species | | |
| 4 | | | | Across All Stra | ata: | 2 | (B) |
| 5 | | | | | minant Species That | 0.00/ | (4.15) |
| O and line of Others to Other towns | | =Total Cove | r | Are OBL, FAC | W, or FAC: | 0.0% | (A/B) |
| Sapling/Shrub Stratum (Plot size: |) | | | Dravelence In | dex worksheet: | | |
| 1 2. | | | | Total % C | | ultiply by: | |
| | | | | OBL species | 2 x 1 = | | |
| 1 | | | | FACW species | | | |
| 5. | | | | FAC species | 0 x 3 = | 0 | |
| | | =Total Cove | r | FACU species | | 108 | |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 56 x 5 = | 280 | |
| Sporobolus vaginiflorus | 30 | Yes | UPL | Column Totals | 98 (A) | 416 | (B) |
| 2. Dipsacus laciniatus | 20 | Yes | UPL | Prevalence | Index = B/A = | 4.24 | _ |
| 3. Solidago altissima | 10 | No | FACU | | | | |
| 4. Solidago rigida | 7 | No | FACU | | egetation Indicator | | |
| 5. Phragmites australis | 7 | No | FACW | l — · | Test for Hydrophytic \ | /egetation | |
| Symphyotrichum ericoides | 6 | No | FACU | | ance Test is >50% | | |
| 7. Eupatorium altissimum | 5 | No No | UPL | | ence Index is ≤3.0 ¹ | /D : 1 | |
| 8. Fraxinus pennsylvanica | 5 | No No | FACW | · | ological Adaptations ¹ Remarks or on a sep | ` | |
| 9. Fragaria virginiana | 3 | No | FACU | | | | - |
| 10. Lythrum salicaria | 2 | No Total Cava | OBL | | tic Hydrophytic Veget | | , |
| Woody Vino Stratum (Plot size) | 98 | =Total Cove | ı | | nydric soil and wetlan less disturbed or prob | | y must |
| Woody Vine Stratum (Plot size:1. |) | | | be present, un | iess disturbed or brot | nematic. | |
| 2. | | | | Hydrophytic | | | |
| - | | =Total Cove | r ——— | Vegetation Present? | Yes No | X | |
| Remarks: (Include photo numbers here or on a sepa | | | | 1 | | | |
| Community Type: developed land HGM Type: | , | tic vegetatio | n is not prese | ent | | | |

Sampling Point: NE19-109 UPL

VEGETATION Continued – Use scientific names of plants.

| Tree Stratum | Absolute % Cover | Dominant Species? | Indicator Status | Definitions of Vegetation Strata: |
|--|---------------------|-------------------|---------------------|--|
| 6. 7. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 8. 9. | | · | | Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 11. | | | | Herb – All herbaceous (non-woody) plants, including |
| 12. 13. | | | | herbaceous vines, regardless of size, and woody plants less than 3.28 ft tall. |
| 10. | | =Total Cover | | Woody Vine – All woody vines greater than 3.28 ft in |
| Sapling/Shrub Stratum 6. | | | | height. |
| 6. 7. | • | · | | |
| 8. | | | | |
| 9. | 1 | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| | | =Total Cover | | |
| Herb Stratum | | | | |
| 11. Leucanthemum vulgare | 1 | No | UPL | |
| 12. Solidago canadensis | 1 | No | FACU | |
| 13. Juncus torreyi | 1 | No | FACW | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | - | | | |
| 22 | | -Tatal Causa | | |
| Woody Vine Stratum | 98 | =Total Cover | | |
| 2 | | | | |
| | | | | |
| 5. | - | | | |
| 6. | • | | | |
| 7. | | | | |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sep- | arato shoot | • | | |
| Tremains. (include prioto humbers here of off a sep- | arate sneet., |) | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

SOIL Sampling Point: NE19-109 UPL

| | . , | to the dep | | | | itor or o | confirm the absence | of indicators.) |
|---|---|-------------|------------------------|-------------|----------------------|---|----------------------|--|
| Depth | Matrix | | | Featur | | . 2 | _ | |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-6 | 10YR 3/1 | 100 | | | | | Loamy/Clayey | |
| 6-12 | 10YR 4/1 | 100 | | | | | Loamy/Clayey | |
| 12-18 | 10YR 4/2 | 95 | 10YR 5/6 | 5 | _ C_ | M | | Prominent redox concentrations |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | - |
| | | | | | | | | |
| 1- 0.0 | | | | | | | 2, | |
| | oncentration, D=Depl | etion, RM | =Reduced Matrix, M | IS=Masi | ked Sand | Grains | | : PL=Pore Lining, M=Matrix. |
| Hydric Soil | | | Canada Clas | | min (C.4) | | | rs for Problematic Hydric Soils ³ : |
| Histosol | ` ' | | Sandy Gley | | | | | st Prairie Redox (A16) |
| | ipedon (A2) | | Sandy Red | | | | | Manganese Masses (F12) |
| Black His | , , | | Stripped M | • | 0) | | | Parent Material (F21) |
| | n Sulfide (A4) | | Dark Surfa | ` , | L (- 4) | | | Shallow Dark Surface (F22) |
| | Layers (A5) | | Loamy Muc | - | | | Othe | r (Explain in Remarks) |
| 2 cm Mu | , , | . (Δ44) | Loamy Gle | | | | | |
| | Below Dark Surface | (A11) | Depleted M | | 3, | an af hardware hadin are well-there are d | | |
| | rk Surface (A12) | | Redox Darl | | | rs of hydrophytic vegetation and | | |
| | ucky Mineral (S1) | | Depleted D | | | and hydrology must be present, | | |
| | 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) | | | | | | | ss disturbed or problematic. |
| Restrictive Layer (if observed): | | | | | | | | |
| Type: _ | | | | | | | | |
| Depth (inches): Hydric Soil Present? Yes No X | | | | | | | | |
| Remarks: | | | | | | | | |
| Hydric soils a | are not present. Does | s not meet | hydric soils criteria | • | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | GV. | | | | | | | |
| | | | | | | | | |
| | drology Indicators: | | | | | | | |
| - | ators (minimum of o | ne is requi | | | (5.6) | | | ry Indicators (minimum of two required) |
| | Water (A1) | | Water-Stair | | ` ' | | | ace Soil Cracks (B6) |
| | ter Table (A2) | | Aquatic Fa | | - | | | nage Patterns (B10) |
| X Saturation | ` ' | | True Aquat | | , , | | | Season Water Table (C2) |
| Water M | | | Hydrogen S | | | | | fish Burrows (C8) |
| | t Deposits (B2) osits (B3) | | Oxidized R Presence of | | | • | ` ′ | ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) |
| | t or Crust (B4) | | Recent Iron | | , | , | | morphic Position (D2) |
| | osits (B5) | | Thin Muck | | | ileu ooii | ` ' — | -Neutral Test (D5) |
| | on Visible on Aerial Ir | nadery (R | | | | | | -Nedital Test (D3) |
| | Vegetated Concave | | · — | | | | | |
| Field Observ | | Odridoo (i | Other (EXP | iulii iii i | terriarito) | | T | |
| Surface Wat | | c | No Y | Conth (i | nchos): | | | |
| Water Table | | s X | | | nches): _ | 12 | | |
| Saturation P | | | | | nches): _ nches): | | Wetland Hydrolo | gy Present? Yes X No |
| (includes cap | | <u> </u> | | Sopui (II | | | Trettand Hydrolo | gy : 103cin: 103 / 110 |
| | corded Data (stream | gauge me | onitoring well aerial | photos | . previous | sinspec | tions), if available | |
| | | J | | , | , | | ,, | |
| Remarks: | | | | | | | | |
| 1.5 inches of | rainfall overnight. W | etland hyd | Irology is present. | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (| ORD) | City/Cou | nty: Chicago | o/Cook or DuPage | Sampling Da | ate: <u>9/13</u> | /2019 |
|---|-------------------|----------------|---------------|--|--------------------------------|------------------|--------------|
| Applicant/Owner: City of Chicago | | | | State: IL | — Sampling Po | int: NE19 | 9-109 WET |
| Investigator(s): Brauna Hartzell, Kim Shannon, Mea | ad & Hunt, Inc. | Section, | Гownship, Ra | inge: Section 4, T40 | — N, R12E | | |
| Landform (hillside, terrace, etc.): basin | | | | concave, convex, none | | | |
| Slope (%): <1% Lat: 41.98663866 | | | 87.87499765 | | Datum: WGS8 | ·/ | |
| | dy layel (Dradami | | | | | ' | |
| Soil Map Unit Name: 805A - Orthents, clayey, near | | | | | | | |
| Are climatic / hydrologic conditions on the site typic | | | | No X (If no, | | | |
| Are Vegetation, Soil, or Hydrology_> | ' | | Are "Normal (| Circumstances" prese | nt? Yes X | No | _ |
| Are Vegetation, Soil, or Hydrology | naturally prob | olematic? (| If needed, ex | plain any answers in l | Remarks.) | | |
| SUMMARY OF FINDINGS – Attach site | map showin | ıg samplir | ng point lo | cations, transec | ts, important | feature | s, etc. |
| Hydrophytic Vegetation Present? Yes X | No | Is the | Sampled A | rea | | | |
| Hydric Soil Present? Yes X | No | | n a Wetland | | . No | | |
| Wetland Hydrology Present? Yes X | No | | | | | | |
| Remarks: | | | | | | | |
| Concrete and debris at north end of wetland has a rainfall during September 2019. | affected hydrolog | y. Climatic/hy | /drologic con | ditions are not typical | due to an above a | average an | nount of |
| VEGETATION – Use scientific names of | plants. | | | | | | |
| | Absolute | Dominant | Indicator | | | | |
| Tree Stratum (Plot size: 30ft) | % Cover | Species? | Status | Dominance Test v | vorksheet: | | |
| Populus deltoides Populus deltoides | | Yes | FAC | Number of Domina Are OBL, FACW, o | • | 2 | (A) |
| 3. 4. | | | | Total Number of Do Across All Strata: | ominant Species | 2 | (B) |
| 5. | | | | Percent of Domina | nt Species That | | _ |
| | 20 = | Total Cover | | Are OBL, FACW, o | • | 100.0% | (A/B) |
| Sapling/Shrub Stratum (Plot size: |) | | | | | | |
| 1 | | | | Prevalence Index | | | |
| 2 | | | | Total % Cover | | Itiply by: | _ |
| 3 | | | | OBL species | 35 x 1 = | 35 | _ |
| 4 | | | | FACW species | 75 x 2 = | 150 | _ |
| 5 | | | | FAC species | 20 x 3 = | 60 | _ |
| Hody Otrotomy (Districts 55) | = | =Total Cover | | FACU species | 0 x 4 = _ | 0 | _ |
| Herb Stratum (Plot size: 5ft) | 70 | V | EA (C) A / | UPL species | 0 x 5 = _ | 0 | |
| Phragmites australis Elegaboria polyatria | 70 20 | Yes No | FACW_ OBL | Column Totals: Prevalence Inde | 130 (A) | 245 1.88 | _ (B) |
| Eleocharis palustris Lythrum salicaria | 10 | No | OBL | Prevalence inde | X - D/A - | 1.00 | _ |
| Epilobium coloratum | 5 | No | OBL | Hydrophytic Vege | tation Indicators | | |
| Epilobidin coloratum Fraxinus pennsylvanica | | No | FACW | | for Hydrophytic V | | |
| 6. Juncus dudleyi | | No | FACW | X 2 - Dominance | | egetation | |
| 7. Juncus torreyi | | No | FACW | X 3 - Prevalence | | | |
| 8. | | | 17.011 | | cal Adaptations ¹ (| Provide su | pporting |
| 0 | <u> </u> | | | | arks or on a sepa | | |
| 10. | <u> </u> | | | | ydrophytic Vegeta | | |
| | 110 = | Total Cover | | ¹ Indicators of hydric | | | , |
| Woody Vine Stratum (Plot size: | | | | be present, unless | | | riiust |
| 1. | | | | Hydrophytic | | | |
| 2 | | =Total Cover | | Vegetation | es X No | | |
| | - | | | Present? Ye | es X No | | |

SOIL Sampling Point: NE19-109 WET

| | ription: (Describe | to the dep | | | | tor or o | confirm the al | bsence d | of indicators.) |
|---|---|---------------|------------------------|------------|-------------------|---------------------------------|-------------------|----------|---|
| Depth | Matrix | | | Featur | | Loc ² | T 4 | _ | Davis and a |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | <u>%</u> | Type ¹ | | Textur | | Remarks |
| 0-10 | 10YR 4/1 | 90 | 7.5YR 4/6 | 10 | <u>C</u> | <u>M</u> | Loamy/Cl | | Prominent redox concentrations |
| 10-16 | 10YR 4/1 | 100 | | | | | Loamy/Cl | ayey | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | - | | | | |
| ¹ Type: C=C | oncentration, D=Depl | etion RM | -Peduced Matrix M | | ked Sand | Grains | 2 | Location | PL=Pore Lining, M=Matrix. |
| Hydric Soil | | etion, rtivi- | -rreduced Matrix, IV | IO-IVIASI | Keu Sand | Oranis | | | s for Problematic Hydric Soils ³ : |
| Histosol | | | Sandy Gley | ved Mat | riy (S4) | | • | | t Prairie Redox (A16) |
| | ipedon (A2) | | Sandy Red | | 11X (O+) | | _ | | Manganese Masses (F12) |
| Black His | | | Stripped M | | 3) | | _ | | Parent Material (F21) |
| | n Sulfide (A4) | | Dark Surfa | • | ,, | | _ | | Shallow Dark Surface (F22) |
| | Layers (A5) | | Loamy Mu | , , | eral (F1) | | _ | | (Explain in Remarks) |
| | 2 cm Muck (A10) Loamy Gleyed Matrix (F2) | | | | | | | | (Explain in Hemanie) |
| | Below Dark Surface | (A11) | X Depleted M | - | | | | | |
| | , | Redox Dar | | 3 | Indicators | s of hydrophytic vegetation and | | | |
| | Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) | | | | | | | | nd hydrology must be present, |
| | 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) | | | | | | | | s disturbed or problematic. |
| | estrictive Layer (if observed): | | | | | | | | <u> </u> |
| Type: | -uyo: (oboo: vou): | | | | | | | | |
| Depth (inches): Hydric Soil Present? Yes X No | | | | | | | | | |
| | | | | | | | , | | · · · · · · · · · · · · · · · · · · · |
| Remarks: | are present. Hydric s | oils indica | tors Denleted Matri | x (F3) is | satisfied | | | | |
| Tiyano sons c | are present. Tryane e | ono maioa | toro Bopietea Matri | x (1 0) 10 | Janonea | • | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| Wetland Hyd | drology Indicators: | | | | | | | | |
| _ | cators (minimum of o | ne is requi | red; check all that a | apply) | | | | Secondar | y Indicators (minimum of two required) |
| Surface \ | Water (A1) | • | x Water-Stai | ned Lea | ves (B9) | | | Surfa | ce Soil Cracks (B6) |
| X High Wa | ter Table (A2) | | Aquatic Fa | una (B1 | 3) | | | Drain | age Patterns (B10) |
| X Saturation | n (A3) | | True Aquat | ic Plant | s (B14) | | _ | Dry-S | Season Water Table (C2) |
| Water M | arks (B1) | | Hydrogen S | Sulfide (| Odor (C1) | | _ | Crayf | ish Burrows (C8) |
| Sedimen | t Deposits (B2) | | Oxidized R | hizosph | eres on L | iving R | oots (C3) | Satur | ation Visible on Aerial Imagery (C9) |
| Drift Dep | osits (B3) | | Presence of | of Reduc | ced Iron (| C4) | _ | Stunt | ed or Stressed Plants (D1) |
| Algal Ma | t or Crust (B4) | | Recent Iron | n Reduc | tion in Til | led Soil | s (C6) | X Geon | norphic Position (D2) |
| | osits (B5) | | Thin Muck | Surface | (C7) | | _ | X FAC- | Neutral Test (D5) |
| | on Visible on Aerial Ir | | · — | Vell Dat | a (D9) | | | | |
| Sparsely | Vegetated Concave | Surface (I | 38)Other (Exp | lain in R | temarks) | | | | |
| Field Obser | vations: | | | | | | | | |
| Surface Wat | er Present? Ye | s | No X | Depth (i | nches): _ | | | | |
| Water Table | | s <u>X</u> | | | nches): _ | 6 | | | |
| Saturation P | | s <u>X</u> | No | Depth (i | nches): | 0 | Wetland I | Hydrolog | gy Present? Yes X No |
| (includes cap | | | | | | | | | |
| Describe Re | corded Data (stream | gauge, mo | onitoring well, aerial | photos | , previous | inspec | tions), if availa | able: | |
| Remarks: | | | | | | | | | |
| | rainfall previous nigl | nt. Hydrolo | gy present and indi | cated. | | | | | |
| | | - | | | | | | | |
| | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (ORD |) | City/Cou | nty: Chicago | /Cook | Sampling | Date: 9/ | 18/2010 |
|--|---------------------|-------------------|---------------------|-------------------|---|--------------|------------|
| Applicant/Owner: City of Chicago | | | | State: | IL Sampling | Point: NE | 19-110 UPL |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Mea | d & Hunt, Inc | Section, 1 | Гownship, Rar | nge: Section 4, | T40N, R12E | | |
| Landform (hillside, terrace, etc.): bench | | | Local relief (c | oncave, convex, | none): none | | |
| | | | 87.87596604 | | Datum: WG | S84 | |
| Soil Map Unit Name: 805D - Orthents, clayey, rolling (Pr | | | | | <u> </u> | | |
| Are climatic / hydrologic conditions on the site typical for | | | Yes | | no, explain in Rema | arks.) | |
| Are Vegetation , Soil X , or Hydrology si | | | | | resent? Yes X | | |
| Are Vegetation , Soil , or Hydrology na | | | | olain any answers | | | |
| SUMMARY OF FINDINGS – Attach site ma | | | | - | | nt featur | es, etc. |
| Hydrophytic Vegetation Present? Yes No | Х | Is the | Sampled Ar | | | | |
| | X | | n a Wetland? | | No X | | |
| | X | | | | | | |
| Remarks: | | | | | | | |
| Climatic/hydrologic conditions are not typical due to an construction of water main? | above avera | ige amount o | of rainfall duri | ng September 20 | 019. Soil dumping a | area from 1 | 980s; |
| VEGETATION – Use scientific names of plan | its. | | | | | | |
| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominanco To | est worksheet: | | |
| 1. | 70 COVEI | Species: | Status | | ninant Species Tha | .+ | |
| 2. | | | | Are OBL, FAC | • | 0 | (A) |
| 3. | | | | Total Number | of Dominant Specie | s | |
| 4 | | | | Across All Stra | ta: | 1 | (B) |
| 5 | | | | | minant Species Tha | | |
| Sanling/Shrub Stratum (Diot aiza: | = | Total Cover | | Are OBL, FAC | W, or FAC: | 0.0% | (A/B) |
| Sapling/Shrub Stratum (Plot size:) 1. | | | ŀ | Prevalence Inc | dex worksheet: | | |
| 2. | | | | Total % C | | Multiply by: | |
| 3. | | | | OBL species | 10 x 1 : | | |
| 4. | | | | FACW species | 13 x 2 | = 26 | |
| 5. | | | | FAC species | 0 x 3 | = 0 | |
| | = | Total Cover | | FACU species | 15 x 4 : | = 60 | |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 62 x 5 | = 310 | |
| Sporobolus vaginiflorus | 60 | Yes | UPL | Column Totals | ` | 406 | (B) |
| 2. Fraxinus pennsylvanica | 10 | No | FACW | Prevalence | Index = B/A = | 4.06 | |
| 3. Schedonorus arundinaceus | 10 | No | FACU | | | | |
| 4. Scirpus pendulus | 10 | No | OBL | | egetation Indicate | | |
| 5. Symphyotrichum ericoides | 5 | No No | FACU | | Test for Hydrophytic | : Vegetatio | n |
| 6. Phragmites australis | 3 | No | FACW | | ance Test is >50% | | |
| 7. <u>Daucus carota</u> 8. | 2 | No | UPL | | ence Index is ≤3.0 ¹ blogical Adaptations | 1 (Provide | supporting |
| 9. | | | | | Remarks or on a se | - | |
| 10. | | | | | ic Hydrophytic Vege | • | , |
| ··· | 100 = | Total Cover | | | ydric soil and wetla | • | . , |
| Woody Vine Stratum (Plot size:) | | | | | less disturbed or pro | - | gy must |
| 1 | | | | Hydrophytic | | | |
| 2 | | | | Vegetation | | | |
| | <u> </u> | Total Cover | | Present? | Yes N | o <u>X</u> | |
| Remarks: (Include photo numbers here or on a separa | , | netation is n | ot present | | | | |

SOIL Sampling Point: NE19-110 UPL

| Profile Desc | ription: (Describ | e to the dept | h needed to doc | ument t | he indica | tor or o | confirm the absence | of indicators.) |) | |
|--|--|-----------------|-----------------------|-------------|-------------------|------------------|-------------------------|-------------------------------------|---------------|---------------------|
| Depth | Matrix | | Redo | x Featur | es | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remarks | |
| 0-16 | 10YR 4/1 | 100 | | | | | Loamy/Clayey | | clay loam | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| - | - | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| ¹ Type: C=Co | ncentration, D=De | epletion, RM= | Reduced Matrix, N | /IS=Mas | ked Sand | Grains | . ² Location | : PL=Pore Lin | ing, M=Matrix | ζ. |
| Hydric Soil I | ndicators: | | | | | | Indicato | rs for Problem | atic Hydric S | 3oils³: |
| Histosol (| (A1) | | Sandy Gle | - | | | Coas | t Prairie Redox | k (A16) | |
| Histic Epi | ipedon (A2) | | Sandy Red | dox (S5) | | | Iron- | Manganese Ma | asses (F12) | |
| Black His | tic (A3) | | Stripped M | latrix (S | 3) | | Red | Parent Materia | l (F21) | |
| Hydroger | Sulfide (A4) | | Dark Surfa | , , | | | | Shallow Dark S | |) |
| Stratified | Layers (A5) | | Loamy Mu | - | | | Othe | r (Explain in Re | emarks) | |
| 2 cm Mud | ck (A10) | | Loamy Gle | • | , , | | | | | |
| | Below Dark Surfa | ce (A11) | Depleted N | Лatrix (F | 3) | | • | | | |
| | rk Surface (A12) | | Redox Dar | | ` ' | | | s of hydrophyti | | |
| | ucky Mineral (S1) | | Depleted [| | | | | and hydrology n | • | ent, |
| 5 cm Mud | 5 cm Mucky Peat or Peat (S3)Redox Depressions (F8) Restrictive Layer (if observed): | | | | | | | ss disturbed or | problematic. | |
| Restrictive L | ayer (if observed | i): | | | | | | | | |
| Type: | | | | | | | | | | |
| Depth (in | ches): | | | | | | Hydric Soil Present | t? | Yes | No X |
| Remarks: | | | | | | | | | | |
| Hydric soils a | re not present. Do | es not meet l | nydric soils criteria | . No red | ox feature | es obse | rved. | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| HYDROLO | GY | | | | | | | | | |
| - | Irology Indicator | | | | | | | | | |
| - | | f one is requir | ed; check all that | | | | | ry Indicators (m | | <u>/o required)</u> |
| | Vater (A1) | | Water-Sta | | ` , | | | ace Soil Cracks | ` ' | |
| | er Table (A2) | | Aquatic Fa | - | - | | | nage Patterns (| • | |
| Saturatio | | | True Aqua | | | | | Season Water | | |
| Water Ma | | | Hydrogen | | | | | fish Burrows (C | - | (00) |
| | t Deposits (B2) | | Oxidized F | | | - | | ration Visible o | _ | ery (C9) |
| | osits (B3) | | Presence Recent Iro | | , | , | | ted or Stressed | | |
| Iron Depo | or Crust (B4) | | Thin Muck | | | ieu Soii | ` ' — | norphic Positio -Neutral Test ([| | |
| | ก Visible on Aeria | l Imagen, (R7 | | | , , | | | -Neutral Test (L | 55) | |
| | Vegetated Conca | | | | | | | | | |
| <u>— ' </u> | | VC Odriace (D | <u> </u> | naiii iii i | (Ciliants) | | 1 | | | |
| Field Observ | | V-00 | No. V | Donth (i | nohoo): | | | | | |
| Water Table | | Yes Yes | | Depth (i | nches): _ | | | | | |
| Saturation Pr | | Yes | | Depth (i | | | Wetland Hydrolog | ny Present? | Yes | No X |
| (includes cap | | | <u> </u> | Dopui (i | | | Wettana riyarolo | gy i resent. | | <u> </u> |
| | | m gauge mo | nitoring well_aeria | l photos | previous | inspec | tions), if available: | | | |
| | water table not ob | | interning went, derid | Priotoo | , provious | торос | niono), ii availabio. | | | |
| Remarks: | | | | | | | | | | |
| Wetland hydr | ology is neither pr | esent nor ind | cated. | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (0 | ORD) | _ City/Cour | nty: Chicag | o/Cook or DuPage | Sampling Date | e: <u>9/18/2019</u> |
|--|---------------------|----------------------|---------------------|--|---------------------------------|---------------------|
| Applicant/Owner: City of Chicago | | | | State: IL | Sampling Poin | t: NE19-110 WET |
| Investigator(s): Brauna Hartzell, Conor Makepeace, | Mead & Hunt, Inc | Section, T | ownship, Ra | ange: Section 4, T40N | I, R12E | |
| Landform (hillside, terrace, etc.): shallow basin | | I | Local relief (| concave, convex, none |): concave | |
| Slope (%): _ <1% | | Long: - | 87.87588269 |) | Datum: WGS84 | |
| Soil Map Unit Name: 805D - Orthents, clayey, rollin | | | (1%)) | NWI clas | sification: PEM | |
| Are climatic / hydrologic conditions on the site typic | | | | No X (If no, e | | .) |
| Are Vegetation, SoilX_, or Hydrology | | | | | | |
| Are Vegetation, Soil, or Hydrology | | | | | | |
| SUMMARY OF FINDINGS – Attach site | _ | | | | | eatures, etc. |
| Hydrophytic Vegetation Present? Yes X | No | Is the | Sampled A | rea | | |
| Hydric Soil Present? Yes X | No | | n a Wetland | | No | |
| Wetland Hydrology Present? Yes X | No | | | | | |
| Remarks: | | | | | | |
| Soil dumping area; construction of water main? C September 2019. | imatic/hydrologic | conditions a | are not typica | al due to an above aver | age amount of rair | nfall during |
| VEGETATION – Use scientific names of | | | | | | |
| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test w | orksheet: | |
| 1. | | | | Number of Dominar | • | 2 (4) |
| 2. 3. | | | | Are OBL, FACW, or | | (A) |
| 3. 4. | | | | Total Number of Do Across All Strata: | minant Species | 2 (B) |
| 5. | : | | | Percent of Dominan | t Species That | |
| 0 1 0 10 10 1 | | Total Cover | | Are OBL, FACW, or | FAC: | 100.0% (A/B) |
| Sapling/Shrub Stratum (Plot size: | | | | Prevalence Index v | vorkahaat: | |
| 1. 2. | | | | Total % Cover | | ply by: |
| 3. | | | | OBL species | 10 x 1 = | 10 |
| 4. | | | | FACW species | 85 x 2 = | 170 |
| 5. | | | | FAC species | 0 x 3 = | 0 |
| | = | Total Cover | | FACU species | 5 x 4 = | 20 |
| Herb Stratum (Plot size: 5ft) | · | | | UPL species | 0 x 5 = | 0 |
| Phragmites australis | 40 | Yes | FACW | Column Totals: | 100 (A) | 200 (B) |
| 2. Fraxinus pennsylvanica | 20 | Yes | FACW | Prevalence Index | z = B/A =2 | .00 |
| 3. Juncus torreyi | 15 | No | FACW | | | |
| 4. Scirpus pendulus | 10 | No | OBL | Hydrophytic Veget | | |
| 5. Juncus dudleyi | 10 | No | FACW | X 1 - Rapid Test fo | | etation |
| 6. Symphyotrichum ericoides | 3 | No | FACU | X 2 - Dominance | | |
| 7. Ambrosia artemisiifolia | | No | FACU | X 3 - Prevalence | | |
| 8. | | | | l <u>—</u> | al Adaptations ¹ (Pr | |
| 9 | | | | | irks or on a separa | |
| 10 | | | | Problematic Hy | drophytic Vegetation | on¹ (Explain) |
| Woody Vine Stratum (Plot size: | 100= | Total Cover | | ¹ Indicators of hydric be present, unless of | | |
| 1. | · | | | Hydrophytic | · | |
| 2. | | | | Vegetation | | |
| | = | Total Cover | | | s_X_ No | |
| Remarks: (Include photo numbers here or on a secommunity Type: wet meadow HGM Type: depressional | . , | ion is present | . Data noint is | approx 25 feet away from | upland point with 6" o | f elevation change |

SOIL Sampling Point: NE19-110 WET

| | · · | to the dep | | | | tor or o | confirm the absence of | of indicators.) | |
|-------------------|-------------------------|--|-----------------------|---------------------|--------------------|------------------|-------------------------|---|-----|
| Depth (inches) | Matrix | % | | x Featur % | Type ¹ | Loc ² | Toyturo | Domarka | |
| (inches) | Color (moist) | | Color (moist) | | | | Texture | Remarks | — |
| 0-6 | 10YR 4/1 | 85 | 7.5YR 4/6 | 15 | <u>C</u> | M | Loamy/Clayey | Prominent redox concentrations | — |
| 6-16 | 10YR 4/1 | 100 | | | | | Loamy/Clayey | clay loam | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | _ |
| ¹Typo: C=C | oncentration, D=Depl | otion PM | -Poducod Matrix N | | kod Sana | Grains | ² l ocation: | PL=Pore Lining, M=Matrix. | — |
| Hydric Soil | | elion, ixivi | -Neduced Matrix, N | io-ivias | Keu Sanc | Gianis | | s for Problematic Hydric Soils ³ : | |
| Histosol | | | Sandy Gle | ved Mat | riv (S1) | | | t Prairie Redox (A16) | |
| | pipedon (A2) | | Sandy Red | - | IIX (O4) | | | Manganese Masses (F12) | |
| Black Hi | | | Stripped M | | 3) | | | Parent Material (F21) | |
| | n Sulfide (A4) | | Dark Surfa | • | , | | | Shallow Dark Surface (F22) | |
| · | I Layers (A5) | | Loamy Mu | , , | eral (F1) | | | (Explain in Remarks) | |
| 2 cm Mu | | | Loamy Gle | - | | | | (Explain in Remarks) | |
| | l Below Dark Surface | (Δ11) | X Depleted N | | | | | | |
| | ark Surface (A12) | , (, (, 1, 1, | Redox Dar | | • | | ³ Indicators | s of hydrophytic vegetation and | |
| | lucky Mineral (S1) | | Depleted D | | ` ' | | | nd hydrology must be present, | |
| | cky Peat or Peat (S3 |) | Redox Dep | | | | | s disturbed or problematic. | |
| | Layer (if observed): | <u>, </u> | <u> </u> | I | | · | | | |
| Type: | Layer (II observed). | | | | | | | | |
| Depth (ir | iches). | | | | | | Hydric Soil Present | ? Yes X No | |
| | | | | Tryuno com i reseme | . 165 <u>X</u> 110 | _ | | | |
| Remarks: | are present. Hydric s | oile indica | itors Donloted Matri | v (E3) io | eatisfied | ı | | | |
| riyuno sons a | are present. Tryunc s | ons muica | itors Depleted Math | x (1 5) 13 | Sausiieu | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | |
| - | cators (minimum of o | ne is requ | ired; check all that | apply) | | | Secondar | y Indicators (minimum of two require | ed) |
| Surface | Water (A1) | - | Water-Sta | ned Lea | ves (B9) | | Surfa | ce Soil Cracks (B6) | |
| High Wa | ter Table (A2) | | Aquatic Fa | una (B1 | 3) | | Drain | age Patterns (B10) | |
| X Saturation | on (A3) | | True Aqua | tic Plant | s (B14) | | Dry-S | eason Water Table (C2) | |
| Water M | arks (B1) | | Hydrogen | Sulfide (| Odor (C1) |) | Crayf | ish Burrows (C8) | |
| Sedimer | t Deposits (B2) | | Oxidized F | Rhizosph | eres on L | iving R | oots (C3) Satur | ation Visible on Aerial Imagery (C9) | |
| Drift Dep | oosits (B3) | | Presence | of Reduc | ced Iron (| C4) | Stunte | ed or Stressed Plants (D1) | |
| Algal Ma | t or Crust (B4) | | Recent Iro | n Reduc | tion in Ti | led Soil | ls (C6) X Geom | norphic Position (D2) | |
| | osits (B5) | | Thin Muck | Surface | (C7) | | X FAC- | Neutral Test (D5) | |
| | on Visible on Aerial Ir | | | Nell Dat | a (D9) | | | | |
| Sparsely | Vegetated Concave | Surface (l | B8)Other (Exp | lain in R | Remarks) | | | | |
| Field Obser | vations: | | | | | | | | |
| Surface Wat | er Present? Ye | s | No X | Depth (i | nches): _ | | | | |
| Water Table | Present? Ye | s X | | | nches): _ | | | | |
| Saturation P | | s_X_ | No | Depth (i | nches): | 8 | Wetland Hydrolog | y Present? Yes X No | |
| (includes cap | | | | | | | | | |
| Describe Re | corded Data (stream | gauge, m | onitoring well, aeria | l photos | , previous | sinspec | ctions), if available: | | |
| Remarks: | | | | | | | | | |
| | rology is present and | indicated | <u>.</u> | | | | | | |
| , | | | | | | | | | |
| | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (C | PRD) | City/Coun | ty: Chicago | o/Cook | Sampling D | ate: <u>9/18</u> | 3/2019 |
|---|--------------------|--------------|----------------|--------------------------|------------------------------------|-------------------------|-----------|
| Applicant/Owner: City of Chicago | | | | State: | IL Sampling Po | oint: NE1 | 9-116 UPL |
| Investigator(s): Brauna Hartzell, Conor Makepeace, N | Mead & Hunt, Inc. | Section, To | ownship, Ra | nge: Section 4, | T40N, R12E | | |
| Landform (hillside, terrace, etc.): bench/terrace | | - L | ocal relief (| concave, convex, | none): none | | |
| Slope (%): <1% Lat: 41.98796192 | | Lona: -8 | 7.87325614 | | Datum: WGS8 | 34 | |
| Soil Map Unit Name: 805D - Orthents, clayey, rolling | ı (Predominantly N | | | | classification: | | |
| | | | | | | ko) | |
| Are climatic / hydrologic conditions on the site typica | - | | /es | | no, explain in Remarl | | |
| Are Vegetation, Soil, or Hydrology | | | | | | No | _ |
| Are Vegetation, Soil, or Hydrology | _naturally proble | matic? (If | needed, ex | plain any answers | s in Remarks.) | | |
| SUMMARY OF FINDINGS – Attach site | map showing | sampling | g point lo | cations, trans | sects, important | feature | s, etc. |
| Hydrophytic Vegetation Present? Yes X | No | Is the | Sampled A | rea | | | |
| | No X | | a Wetland | | No_ X | | |
| | No X | | | • | | | |
| Remarks: | ' | • | | | | | |
| Climatic/hydrologic conditions are not typical due to | an above averag | e amount o | f rainfall dur | ing September 20 | 19. | | |
| VEGETATION – Use scientific names of p | lante | | | | | | |
| VEGETATION - Ose scientific flames of p | | Dominant | Indicator | I | | | |
| <u>Tree Stratum</u> (Plot size: 30ft) | | Species? | Status | Dominance Te | est worksheet: | | |
| 1. Acer negundo | 30 | Yes | FAC | Number of Don | ninant Species That | | |
| 2. Populus deltoides | 25 | Yes | FAC | Are OBL, FAC\ | W, or FAC: | 4 | (A) |
| 3. Robinia pseudoacacia | 25 | Yes | FACU | Total Number of | of Dominant Species | | |
| 4. Rhamnus cathartica | 5 | No | FAC | Across All Strat | ta: | 5 | (B) |
| 5 | | | | | ninant Species That | | |
| | 85=To | otal Cover | | Are OBL, FAC\ | W, or FAC: | 80.0% | (A/B) |
| Sapling/Shrub Stratum (Plot size: 15ft | _) | | | | | | |
| 1. Rhamnus cathartica | 40 | Yes | FAC | | dex worksheet: | 10. 1. 1 | |
| 2. | | | | Total % Co | | ıltiply by: | _ |
| 3. | | | | OBL species | 0 x1= | 0 | _ |
| 4 5. | | | | FACW species FAC species | 0 x2= 110 x3= | 330 | |
| J | 40 =Te | otal Cover | | FACU species | 25 x 4 = | 100 | _ |
| Herb Stratum (Plot size: 5ft) | 40 | otal Govel | | UPL species | 0 x 5 = | 0 | _ |
| 1. Rhamnus cathartica | 10 | Yes | FAC | Column Totals: | | 430 | — (B) |
| 2. | | | | Prevalence I | Index = B/A = | 3.19 | _` ′ |
| 3. | | | | | | | _ |
| 4. | | | | Hydrophytic V | egetation Indicators | s: | |
| 5. | | | | 1 - Rapid T | est for Hydrophytic V | egetation/ | |
| 6. | | | | X 2 - Domina | nce Test is >50% | | |
| 7 | | | | | nce Index is ≤3.0 ¹ | | |
| 8 | | | | | logical Adaptations ¹ (| | |
| 9 | | | | | Remarks or on a sepa | | |
| 10 | | | | Problemati | c Hydrophytic Vegeta | ation ¹ (Exp | lain) |
| | 10=To | otal Cover | | | ydric soil and wetland | | y must |
| Woody Vine Stratum (Plot size: | _) | | | be present, unl | ess disturbed or prob | lematic. | |
| 1. | | | | Hydrophytic | | | |
| 2 | | otal Cover | | Vegetation | Voc V No | | |
| | | Jiai Guvei | | Present? | Yes X No | | |
| Remarks: (Include photo numbers here or on a sep Community Type: upland forest HGM Type: Hy | , | on is presen | t About 2ft | elevation change | over 15 feet between | two data | noints |

SOIL Sampling Point: NE19-116 UPL

| Profile Desc | cription: (Describ | e to the dept | h needed to doc | ument t | he indica | tor or o | onfirm the abse | ence of indicators | i.) | | |
|--------------|---|-----------------|--|------------|-------------------|------------------|----------------------|---------------------|----------------|----------------------|--|
| Depth | Matrix | | Redo | x Featur | | | | | | | |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remarks | | |
| 0-16 | 10YR 3/1 | 100 | | | | | Loamy/Claye | <u></u> | clay loam | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | - | | | | | | | | | | |
| | | | | | | | _ | | | | |
| | | | | | | | | | | | |
| | oncentration, D=D | epletion, RM= | Reduced Matrix, N | /IS=Mas | ked Sand | l Grains | | cation: PL=Pore Li | | | |
| Hydric Soil | | | | | . (0.1) | | Indi | cators for Proble | - | Soils": | |
| — Histosol | ` ' | | Sandy Gle | - | | | | Coast Prairie Red | , | | |
| | oipedon (A2) | | Sandy Red | | | | | Iron-Manganese N | , , | | |
| | stic (A3) | | Stripped M | • | o) | | | Red Parent Materi | ` ' | | |
| _ · · | n Sulfide (A4) | | Dark Surfa | | | | Very Shallow Dark | - | (1) | | |
| | d Layers (A5) | | Loamy Mu | | | | | Other (Explain in F | Remarks) | | |
| | ick (A10) | (0.44) | Loamy Gle | - | | | | | | | |
| | d Below Dark Surfa ark Surface (A12) | ice (ATT) | Redox Dar | ` | , | | ³ Ind | icators of hydrophy | tio vogototion | and | |
| | fucky Mineral (S1) | | | | . , | | | | • | | |
| | icky Peat or Peat (| | Depleted Dark Surface (F7) wetland hydrology must be p Redox Depressions (F8) unless disturbed or problema | | | | | | ciit, | | |
| | | · · | | 010331011 | 3 (1 0) | | | unicas disturbed e | n problematic. | | |
| | Layer (if observed | 1): | | | | | | | | | |
| Type: | | | _ | | | | Undria Cail De | | V | Na V | |
| | Depth (inches): Hydric Soil Present? Yes No X | | | | | | | | | | |
| Remarks: | D | 1 | | | | | | | | | |
| Hydric solls | are not present. Do | ses not meet r | nyaric soils criteria | 1. | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| HYDROLO |)GY | | | | | | | | | | |
| | | | | | | | | | | | |
| _ | drology Indicator cators (minimum o | | ed: check all that | annly) | | | Sec | ondary Indicators (| minimum of th | vo required) | |
| | Water (A1) | Tone is require | Water-Stai | | wes (RQ) | | | Surface Soil Crack | - | <u>vo requirea j</u> | |
| | ater Table (A2) | | Aquatic Fa | | ` ' | | | Drainage Patterns | (- / | | |
| Saturation | | | True Aqua | - | - | | | Dry-Season Water | . , | | |
| | larks (B1) | | Hydrogen | | |) | | Crayfish Burrows | | | |
| | nt Deposits (B2) | | Oxidized F | | | | oots (C3) | Saturation Visible | | gery (C9) | |
| | posits (B3) | | Presence | | | _ | · , | Stunted or Stresse | | | |
| Algal Ma | at or Crust (B4) | | Recent Iro | n Reduc | tion in Ti | led Soil | s (C6) | Geomorphic Posit | ion (D2) | | |
| Iron Dep | osits (B5) | | Thin Muck | Surface | e (C7) | | | FAC-Neutral Test | (D5) | | |
| Inundation | on Visible on Aeria | I Imagery (B7) |) Gauge or \ | Well Dat | ta (D9) | | | | | | |
| Sparsely | / Vegetated Conca | ve Surface (B | 8) Other (Exp | olain in F | Remarks) | | | | | | |
| Field Obser | vations: | | | | | | | | | | |
| Surface Wat | ter Present? | Yes | No X | Depth (i | nches):_ | | | | | | |
| Water Table | Present? | Yes | No X | Depth (i | nches): | | | | | | |
| Saturation P | resent? | Yes | No X | Depth (i | nches): | | Wetland Hyd | drology Present? | Yes | No X | |
| | pillary fringe) | | | | | | | | | | |
| Describe Re | corded Data (strea | ım gauge, moi | nitoring well, aeria | l photos | , previous | sinspec | tions), if available | e: | | | |
| | water table not ob | served. | | | | | | | | | |
| Remarks: | Irology is neither p | recent nor indi | icated | | | | | | | | |
| VVCtiand nyo | nology is licitiel pi | COCIL HOI HIGH | outou. | | | | | | | | |
| | | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (OF | RD) | City/Cou | nty: Chicag | o/Cook | Sampling Date: | 9/18/2019 |
|--|-----------------|--------------|----------------|--|--|------------------------|
| Applicant/Owner: City of Chicago | | | - | State: IL | Sampling Point: | NE19-116 WE |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Me | ead & Hunt, Ind | c. Section, | Γownship, Ra | ange: Section 4, T40 | — N, R12E | |
| Landform (hillside, terrace, etc.): shallow basin | | | | concave, convex, none | | |
| Slope (%): <1% Lat: 41.98792909 | | | 87.8732011 | | Datum: WGS84 | |
| Soil Map Unit Name: 805D - Orthents, clayey, rolling | (Prodominantly | | | | ssification: PFO | |
| | | | | | - | |
| Are climatic / hydrologic conditions on the site typical | | - | Yes | | explain in Remarks.) | |
| Are Vegetation, Soil, or Hydrology | | | | Circumstances" preser | · | o <u></u> |
| Are Vegetation, Soil, or Hydrology | naturally prob | lematic? (| If needed, ex | xplain any answers in F | Remarks.) | |
| SUMMARY OF FINDINGS – Attach site m | ap showin | g samplir | ng point lo | ocations, transec | ts, important fea | atures, etc. |
| Hydrophytic Vegetation Present? Yes X N | lo | Is the | Sampled A | ırea | | |
| | lo | | n a Wetland | | No | |
| Wetland Hydrology Present? Yes X | lo | | | | _ | |
| Remarks: | | <u>!</u> | | | | |
| Climatic/hydrologic conditions are not typical due to | an above avera | age amount | of rainfall du | ring September 2019. | | |
| | | | | | | |
| VEGETATION – Use scientific names of pla | ants. | | | | | |
| | Absolute | Dominant | Indicator | | | |
| Tree Stratum (Plot size: 30ft) | % Cover | Species? | Status | Dominance Test w | orksheet: | |
| 1. Acer negundo | 70 | Yes | FAC | Number of Dominal | • | 1 (A) |
| 2. Rhamnus cathartica | 10 | No No | FACU | Are OBL, FACW, o | | 1 (A) |
| Robinia pseudoacacia 4. | | INU | FACU | Total Number of Do Across All Strata: | minant Species | 1 (B) |
| 5. | | | | | | <u> </u> |
| o | 90 = | Total Cover | | Percent of Dominar Are OBL, FACW, o | • | 00.0% (A/B) |
| Sapling/Shrub Stratum (Plot size: 15ft |) | | | 76 652, 17.611, 6 | | (112) |
| 1. Rhamnus cathartica | .′ 2 | No | FAC | Prevalence Index | worksheet: | |
| 2. Acer negundo | 2 | No | FAC | Total % Cover | of: Multiply | y by: |
| 3. | | | | OBL species | 0 x 1 = | 0 |
| 4. | | | | FACW species | 0 x 2 = | 0 |
| 5 | | | | FAC species | 84 x 3 = | 252 |
| | = | Total Cover | | FACU species | 10 x 4 = | 40 |
| Herb Stratum (Plot size:) | | | | UPL species | 0 x 5 = | 0 |
| 1. | | | | Column Totals: | `` | 292 (B) |
| 2. | · | | | Prevalence Index | x = B/A = 3.1 | <u>1</u> |
| 3. | | | | The described in Manage | lation in diameters | |
| 4 5. | | | | Hydrophytic Veget | tation indicators: for Hydrophytic Vege | tation |
| | | | | X 2 - Dominance | | laliOH |
| 7 | | | | 3 - Prevalence | | |
| 8. | | | | | ral Adaptations ¹ (Prov | ide supportino |
| | | | | | arks or on a separate | |
| 10. | | | | Problematic Hy | drophytic Vegetation | ¹ (Explain) |
| | = | Total Cover | | | soil and wetland hyd | |
| Woody Vine Stratum (Plot size: |) | | | | disturbed or problema | |
| 1. | - | | | Hydrophytic | | |
| 2. | | | | Vegetation | | |
| | = | Total Cover | | Present? Ye | s X No | _ |
| Remarks: (Include photo numbers here or on a sepa | arate sheet.) | | | | | |
| Community Type: forested wetland HGM Type: den | ressional Hy | drophytic ve | getation is n | resent | | |

SOIL Sampling Point: NE19-116 WET

| Profile Desc | ription: (Describe | to the dept | h needed to doc | ument th | ne indica | tor or o | confirm the | absence o | of indicators.) | | | |
|--|---|----------------|----------------------|--------------|-------------------|----------------------------|---------------|------------------------|---|--|--|--|
| Depth | Matrix | | Redo | x Feature | | | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | <u>%</u> | Type ¹ | Loc ² | Text | ure | Remarks | | | |
| 0-2 | 10YR 3/1 | 100 | | | | | Loamy/ | Clayey | clay loam | | | |
| 2-8 | 10YR 4/1 | 80 | 10YR 5/6 | 20 | <u>C</u> | M | | | Prominent redox concentrations | | | |
| 8-10 | 10YR 4/3 | 98 | 10YR 6/6 | 2 | С | М | | | Distinct redox concentrations | | | |
| 10-16 | 10YR 3/1 | 100 | | | | | Loamy/ | Clayey | clay loam | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| ¹Type: C=Co | oncentration, D=Depl | etion, RM= | Reduced Matrix, N | ∕/S=Masł | ced Sand | Grains | · | ² Location: | : PL=Pore Lining, M=Matrix. | | | |
| Hydric Soil I | | | | | | | | | s for Problematic Hydric Soils ³ : | | | |
| Histosol (| (A1) | | Sandy Gle | yed Matı | rix (S4) | | | Coas | t Prairie Redox (A16) | | | |
| Histic Ep | ipedon (A2) | | Sandy Red | dox (S5) | | | | Iron-N | Manganese Masses (F12) | | | |
| Black Histic (A3) Stripped Matrix (S6) | | | | | | | | Red F | Parent Material (F21) | | | |
| Hydroger | ace (S7) | | | | Very | Shallow Dark Surface (F22) | | | | | | |
| Stratified | Layers (A5) | | Loamy Mu | icky Mine | eral (F1) | | | Other | (Explain in Remarks) | | | |
| 2 cm Mud | , | | Loamy Gle | - | | | | | | | | |
| | Below Dark Surface | (A11) | X Depleted I | | | | | 2 | | | | |
| | rk Surface (A12) | | Redox Dai | | ` ' | | | | s of hydrophytic vegetation and | | | |
| | ucky Mineral (S1) | | Depleted [| | , , | | | | nd hydrology must be present, | | | |
| 5 cm Mud | cky Peat or Peat (S3 |) | Redox De | pressions | s (F8) | | | unles | s disturbed or problematic. | | | |
| | ayer (if observed): | | | | | | | | | | | |
| _ | Type: | | | | | | | | | | | |
| Depth (in | Depth (inches): Hydric Soil Present? Yes X No | | | | | | | | | | | |
| Remarks: | | | 5 1 (15 1 | D 1 6 | | | | (50) | | | | |
| Hydric soils a | are present. Hydric s | soils indicate | ors Depleted Belo | w Dark S | surface (A | 411) an | d Depleted I | Matrix (F3) | are satisfied. | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| HYDROLO | GY | | | | | | | | | | | |
| | drology Indicators: | | | | | | | | | | | |
| _ | ators (minimum of o | ne is requir | ed: check all that | apply) | | | | Secondar | y Indicators (minimum of two required) | | | |
| | Nater (A1) | | X Water-Sta | | ves (B9) | | | | ce Soil Cracks (B6) | | | |
| | ter Table (A2) | | Aquatic Fa | | ` , | | | | age Patterns (B10) | | | |
| Saturatio | ` ' | | True Aqua | - | - | | | | Season Water Table (C2) | | | |
| Water Ma | | | Hydrogen | | . , |) | | | ish Burrows (C8) | | | |
| Sedimen | t Deposits (B2) | | Oxidized F | Rhizosph | eres on L | iving R | oots (C3) | Satur | ation Visible on Aerial Imagery (C9) | | | |
| Drift Dep | osits (B3) | | Presence | of Reduc | ed Iron (| C4) | | Stunt | ed or Stressed Plants (D1) | | | |
| Algal Mat | t or Crust (B4) | | Recent Iro | n Reduc | tion in Til | led Soil | ls (C6) | X Geom | norphic Position (D2) | | | |
| Iron Depo | osits (B5) | | Thin Muck | Surface | (C7) | | | FAC- | Neutral Test (D5) | | | |
| | n Visible on Aerial Ir | | | Well Data | a (D9) | | | | | | | |
| X Sparsely | Vegetated Concave | Surface (B | 8)Other (Exp | olain in R | emarks) | | | | | | | |
| Field Observ | vations: | | | | | | | | | | | |
| Surface Water | | | | Depth (ir | · - | | | | | | | |
| Water Table | | s_X_ | | Depth (ir | ′ – | 16 | | | | | | |
| Saturation Pr | | s | No X | Depth (ir | nches): | | Wetland | d Hydrolog | gy Present? Yes X No No | | | |
| (includes cap | | acutere | oitoring | l nh - f - | nne d - | . in | tions\ !f =: | ailah!a. | | | | |
| Describe Red | corded Data (stream | gauge, moi | illoring well, aeria | ıı pnotos, | previous | ınspec | uons), it ava | aliable: | | | | |
| Remarks: | | | | | | | | | | | | |
| | rology is indicated. A | rea is a sha | illow basin at base | e of slope | e; 2 ephe | meral s | treams/drai | nages end | at this area. Braided flow throughout | | | |
| with some ba | ickwater in west end | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (ORD) | C | City/Cour | nty: Chicago | o/Cook or DuPage | e San | npling Date | : 7/29 | /2019 |
|---|-----------|-----------|----------------|-------------------------------|----------------------------------|----------------|----------------------|----------|
| Applicant/Owner: City of Chicago | | | | State: | IL Sam | npling Poin | t: NW1 | 9-01 UPL |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Shannon, Mead & Hunt | , Inc. Se | ection, T | ownship, Ra | ange: Section 36 | 5, T41N, R11E | Ξ | | |
| Landform (hillside, terrace, etc.): hillslope/midslope | | l | _ocal relief (| concave, convex, | none): conve | x | | |
| Slope (%): 30 Lat: 42.00013088 | | Long: -8 | 37.92874482 | 2 | Datum | n: WGS84 | | |
| Soil Map Unit Name: 533 - Urban land (Non-hydric (0%)) | | _ | | | l classification | n: | | |
| Are climatic / hydrologic conditions on the site typical for this time | of vear | ? | Yes X | | | |) | |
| Are Vegetation X , Soil X , or Hydrology significantly | - | | | Circumstances" p | | | | |
| | | | | concumstances property | | | | _ |
| Are Vegetation, Soil, or Hydrology naturally properties at the state of the state | | | | | | • | eature | s, etc. |
| Hydrophytic Vegetation Present? Yes No X | | le the | Sampled A | roa | | | | |
| Hydrophytic Vegetation Present? Yes No _X Hydric Soil Present? Yes No _X | | | a Wetland | | Ne | o <u>X</u> | | |
| Wetland Hydrology Present? Yes No X | | | | | | | | |
| Remarks: | | | | | | | | |
| A constructed area that is mown regularly. | | | | | | | | |
| | | | | | | | | |
| VEGETATION – Use scientific names of plants. | | | | | | | | |
| Absolute | | ninant | Indicator | B | | | | |
| Tree Stratum (Plot size:) | Spe | cies? | Status | Dominance To | | | | |
| | - — | | | Number of Dor Are OBL, FAC | • | s That | 0 | (A) |
| 3. | | | | Total Number | | — Species | | _(' ') |
| 4. | | | | Across All Stra | | эрсоюз | 1 | (B) |
| 5. | | | | Percent of Dor | ninant Specie | s That | | |
| | _=Tota | l Cover | | Are OBL, FAC | W, or FAC: | _ | 0.0% | _(A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | | | | | |
| 1 | | | | Prevalence In | | | | |
| 2 | | | | Total % C | | | oly by: | _ |
| 3 | | | | OBL species FACW species | | x 1 = x 2 = | 0 | _ |
| 5. | | | | FAC species | 0 | x 3 = | 0 | _ |
| | =Tota | l Cover | | FACU species | 100 | x 4 = | 400 | _ |
| Herb Stratum (Plot size: 5ft) | _ | | | UPL species | 0 | x 5 = | 0 | _ |
| 1. Schedonorus pratensis 95 | | es_ | FACU | Column Totals | 100 | (A) | 400 | (B) |
| 2. Trifolium pratense 5 | ' | No | FACU | Prevalence | Index = B/A | = 4. | 00 | _ |
| 3. | - — | | | | | | | |
| 4 | - — | | | Hydrophytic V | _ | | | |
| 5 | | | | l — | Test for Hydro ance Test is > | | jetation | |
| 6 | | | | | ence Index is: | | | |
| 8. | | | | | ological Adapt | | ovide su | pporting |
| 9. | | | | | Remarks or o | | | |
| 10. | | | · | Problemat | ic Hydrophytic | c Vegetatic | on ¹ (Exp | ain) |
| 100 | =Tota | l Cover | | ¹ Indicators of h | | - | | - |
| Woody Vine Stratum (Plot size:) | | | | be present, un | • | | | |
| 1 | | | | Hydrophytic | | | | |
| 2 | | | | Vegetation | | | | |
| | _=Tota | l Cover | | Present? | Yes | No | <u>x</u> | |
| Remarks: (Include photo numbers here or on a separate sheet. Community Type: developed land HGM Type: N/A; mown re | , | hydropl | nytic vegetat | tion is not present | | | | |

SOIL Sampling Point: NW19-01 UPL

| Depth | cription: (Describe Matrix | onfirm the absence | or indicators.) | 1 | | | | | | |
|------------------------|--|--------------------|----------------------|---------------|-------------------|------------------|------------------------|------------------|---------------|--------------------|
| (inches) | Color (moist) | % | Color (moist) | x Featur % | Type ¹ | Loc ² | Texture | | Remarks | |
| 0-7 | 10YR 3/1 | 100 | (, | | | | Loamy/Clayey | | | |
| | 101110/1 | | | | | | <u> </u> | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | - | | |
| | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=De | pletion, RM= | Reduced Matrix, N | /S=Mas | ked Sand | Grains. | ² Location | : PL=Pore Lin | ing, M=Matri | x. |
| Hydric Soil | Indicators: | - | | | | | | s for Problem | | |
| Histosol | (A1) | | Sandy Gle | yed Mat | rix (S4) | | Coas | t Prairie Redo | x (A16) | |
| Histic Ep | oipedon (A2) | | Sandy Red | dox (S5) | | | Iron- | Manganese Ma | asses (F12) | |
| Black Hi | stic (A3) | | Stripped M | latrix (Se | 6) | | Red | Parent Materia | I (F21) | |
| Hydroge | en Sulfide (A4) | | Dark Surfa | ice (S7) | | | Very | Shallow Dark | Surface (F22 | (1) |
| Stratified | d Layers (A5) | | Loamy Mu | cky Min | eral (F1) | | Othe | r (Explain in Re | emarks) | |
| 2 cm Mu | ıck (A10) | | Loamy Gle | eyed Ma | trix (F2) | | | | | |
| Depleted | d Below Dark Surfa | ce (A11) | Depleted I | Лatrix (F | 3) | | | | | |
| | ark Surface (A12) | | Redox Da | | ` ' | | ³ Indicator | s of hydrophyt | ic vegetation | and |
| | lucky Mineral (S1) | | Depleted [| | , , | | | and hydrology r | | |
| 5 cm Mu | 5 cm Mucky Peat or Peat (S3) Redox Depressions | | | | | | unles | ss disturbed or | problematic. | |
| Restrictive | Layer (if observed |): | | | | | | | | |
| Туре: | gravel and | pebbles | | | | | | | | |
| Depth (ii | nches): | 7 | _ | | | | Hydric Soil Present | t? | Yes | No X |
| Fioblematic | son with restrictive | layer or grav | ei and pebbles pre | Sent. Hy | dic sons | are not | present. Does not me | et flydric solls | cinteria. | |
| HYDROLO | OGY | | | | | | | | | |
| | drology Indicators | | | | | | | | | |
| | cators (minimum of | | ed: check all that | annly) | | | Seconda | ry Indicators (n | ninimum of t | vo required) |
| | Water (A1) | ono lo roquii | Water-Sta | | aves (B9) | | | ace Soil Cracks | | <u>ro roquirou</u> |
| | ater Table (A2) | | Aquatic Fa | | ` ' | | | nage Patterns (| ` ' | |
| Saturation | on (A3) | | True Aqua | | - | | | Season Water | - | |
| Water M | larks (B1) | | Hydrogen | Sulfide (| Odor (C1) |) | Cray | fish Burrows (C | 28) | |
| Sedimer | nt Deposits (B2) | | Oxidized F | Rhizosph | eres on l | iving Ro | oots (C3) Satu | ration Visible o | n Aerial Ima | gery (C9) |
| Drift Dep | posits (B3) | | Presence | of Redu | ced Iron (| C4) | Stun | ted or Stressed | d Plants (D1) | |
| Algal Ma | at or Crust (B4) | | Recent Iro | n Reduc | ction in Ti | lled Soils | · · | norphic Positio | | |
| | oosits (B5) | | Thin Muck | | , , | | FAC | -Neutral Test (I | D5) | |
| | on Visible on Aerial | | | | | | | | | |
| Sparsely | / Vegetated Conca | e Surface (B | 88)Other (Exp | olain in F | Remarks) | | | | | |
| Field Obser | | | | | | | | | | |
| Surface Wat | | es | | | nches): _ | | | | | |
| Water Table | | 'es | | | nches): | | | | | |
| Saturation P | | es | No X | Depth (i | nches): | | Wetland Hydrolog | gy Present? | Yes | No_X |
| | pillary fringe) | | | | | | | | | |
| Describe Re | corded Data (strea | n gauge, mo | nitoring well, aeria | l photos | , previous | s inspect | tions), if available: | | | |
| Remarks: | | | | | | | | | | |
| | drology is neither pro | esent nor ind | icated | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Project/Site: Chicago O'Hare Intern | ational Airport (ORD) |) | City/Cou | nty: Chicago | o/Cook | Samplin | g Date: | 7/29/2019 |
|--|--------------------------|---------------------|--------------------------|---------------------|--|---|-------------------|---|
| Applicant/Owner: City of Chicag | 0 | | | | State: | IL Samplin | g Point: | NW19-01 WET |
| Investigator(s): Brauna Hartzell, Conor Ma | akepeace, Kim Shannon, M | ead & Hunt, Inc | Section, 7 | Γownship, Ra | inge: Section 36 | 3, T41N, R11E | | |
| Landform (hillside, terrace, etc.): sv | vale/ditch | | | Local relief (d | concave, convex, | none): concave | | |
| Slope (%): <1% Lat: 42.0001 | 4237 | | Long: - | 87.92870085 | 5 | Datum: W | 'GS84 | |
| Soil Map Unit Name: 533 - Urban la | and (Non-hydric (0%)) |) | | | NW | I classification: Pl | EM | |
| Are climatic / hydrologic conditions | on the site typical for | this time of | year? | Yes X | No (If | no, explain in Re | marks.) | |
| Are Vegetation X , Soil X , o | | | - | | | | | |
| Are Vegetation, Soil, c | | | | | · γplain any answer | | | |
| SUMMARY OF FINDINGS - | · | | | ng point lo | ocations, tran | sects, import | ant feat | ures, etc. |
| Hydrophytic Vegetation Present? | Yes X No | | Is the | Sampled A | rea | | | |
| Hydric Soil Present? | | | withi | n a Wetland | ? Yes | <u> </u> | | |
| Wetland Hydrology Present? | Yes X No | | | | | | | |
| Remarks: Vegetation mown regularly and so | ils disturbed due to c | onstruction o | of airport. | | | | | |
| VEGETATION – Use scientif | fic names of plan | ts. | | | | | | |
| Tree Stratum (Plot size: |) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance T | est worksheet: | | |
| 1. 2. | | | | | Number of Do Are OBL, FAC | minant Species Tl W, or FAC: | | 2(A) |
| 3. 4. | | | | | Total Number Across All Stra | of Dominant Spec | | 3 (B) |
| 5. | | | Total Cover | | | minant Species Th | nat | .7% (A/B) |
| · · · · · · · · · · · · · · · · · · · | : size:) | | Total Cover | | Ale OBL, FAC | W, or rac. | | <u>////</u> (A/D) |
| 1. | | | | | | dex worksheet: | | |
| 2. | | | | | Total % C | | Multiply 1 = 7 | |
| 3. 4 | | | | | OBL species FACW species | | | <u>70 </u> |
| 5. | | | | | FAC species | | | 0 |
| | | | Total Cover | | FACU species | | | 20 |
| Herb Stratum (Plot size: | 5ft) | | | | UPL species | | | 0 |
| 1. Eleocharis obtusa | | 40 | Yes | OBL | Column Totals | i 100 (A) | 1: | 90 (B) |
| 2. Schedonorus pratensis | | 30 | Yes | FACU | Prevalence | Index = B/A = | 1.90 | |
| 3. Typha angustifolia | | 25 | Yes | OBL | | | | |
| 4. Lythrum salicaria | | 5 | No | OBL | Hydrophytic \ | egetation Indica | tors: | |
| 5 | | | | | 1 - Rapid ` | Test for Hydrophy | tic Vegeta | ıtion |
| 6 | | | | | | ance Test is >50% | | |
| 7 | | | | | | ence Index is ≤3.0 | | |
| 8 | | | | | l | ological Adaptatio | • | |
| 9 | | | | | | Remarks or on a | | , |
| 10 | | | | | | tic Hydrophytic Ve | • | |
| Woody Vine Stratum (Plot | size:) | 100= | Total Cover | | | nydric soil and wei less disturbed or _l | - | |
| 1. | | | | | Hydrophytic | | | |
| 2 | | | Tatal O | | Vegetation | Voc. V | NI- | |
| | - | = | l otal Cover | | Present? | res X | мо | |
| 1 | s here or on a separa | = te sheet.) | Total Cover Total Cover | int within swale. 1 | be present, un Hydrophytic Vegetation Present? | Yes X | nroblemat | ic. |

SOIL Sampling Point: NW19-01 WET

| Profile Desc | ription: (Describe | to the depti | n needed to docu | ument t | he indica | tor or c | onfirm the absence | of indicators.) | | | |
|--|---|---------------|----------------------|----------|-------------------|------------------|-------------------------|--|--|--|--|
| Depth | Matrix | | Redo | x Featur | | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | | |
| 0-5 | 10YR 3/1 | 95 | 7.5YR 4/6 | 5 | C | M | Loamy/Clayey | Prominent redox concentrations | | | |
| 5-8 | 10YR 4/1 | 95 | 10YR 5/6 | 5 | С | М | Loamy/Clayey | Prominent redox concentrations | | | |
| | \ <u></u> | | | | | | | layer contains pebbles and gravel | | | |
| | | | | | | | | above restrictive layer | | | |
| | | | | | | | | above recurrence layer | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| ¹ Type: C=Co | ncentration, D=Dep | letion, RM=F | Reduced Matrix, N | /IS=Mas | ked Sand | l Grains. | | : PL=Pore Lining, M=Matrix. | | | |
| Hydric Soil I | ndicators: | | | | | | Indicato | rs for Problematic Hydric Soils ³ : | | | |
| Histosol (| (A1) | | Sandy Gle | - | | | | st Prairie Redox (A16) | | | |
| | ipedon (A2) | | Sandy Red | , , | | | | Manganese Masses (F12) | | | |
| Black His | ` ' | | Stripped M | , | 3) | | | Parent Material (F21) | | | |
| | n Sulfide (A4) | | Dark Surfa | ` ' | | | | Shallow Dark Surface (F22) | | | |
| | Layers (A5) | | Loamy Mu | - | | | Othe | r (Explain in Remarks) | | | |
| 2 cm Mud | , , | | Loamy Gle | • | , , | | | | | | |
| | Below Dark Surface | e (A11) | Depleted N | • | , | | 3 | | | | |
| I — | rk Surface (A12) | | X Redox Dar | | ` ' | | | rs of hydrophytic vegetation and | | | |
| I — ' | ucky Mineral (S1) | | Depleted [| | | | | and hydrology must be present, | | | |
| 5 cm Mud | cky Peat or Peat (S | 3) | Redox Dep | ression | s (F8) | | unles | ss disturbed or problematic. | | | |
| | .ayer (if observed): | | | | | | | | | | |
| Type: | fill | | <u> </u> | | | | | | | | |
| Depth (in | Depth (inches): 8 Hydric Soil Present? Yes X No | | | | | | | | | | |
| Fill and grave satisfied. | el create a restrictive | layer. Hydri | ic soil indicators p | resent a | above res | trictive la | ayer. Hydric soils indi | cator Redox Dark Surface (F6) is | | | |
| HYDROLO | GY | | | | | | | | | | |
| _ | Irology Indicators: | | | | | | | | | | |
| | ators (minimum of o | ne is require | | | | | | ry Indicators (minimum of two required) | | | |
| | Water (A1) | | Water-Stai | | ` ' | | | ace Soil Cracks (B6) | | | |
| | ter Table (A2) | | Aquatic Fa | | • | | | nage Patterns (B10) | | | |
| Saturatio | ` ' | | True Aqua | | | | | Season Water Table (C2) | | | |
| Water Ma | | | Hydrogen : | | , , | | | fish Burrows (C8) | | | |
| | t Deposits (B2) osits (B3) | | Oxidized R | | | _ | | ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) | | | |
| | t or Crust (B4) | | Recent Iro | | , | , | | morphic Position (D2) | | | |
| Iron Depo | | | Thin Muck | | | ilou ooiit | · · · | -Neutral Test (D5) | | | |
| | n Visible on Aerial I | magery (B7) | | | | | <u></u> | 11001101 (20) | | | |
| | Vegetated Concave | | | | | | | | | | |
| Field Observ | | | - | | | | | | | | |
| | | 19 | No X | Denth (i | nches). | | | | | | |
| | Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): | | | | | | | | | | |
| Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No | | | | | | | | | | | |
| (includes cap | | | | r (I | | | | <u></u> | | | |
| | corded Data (stream | gauge, mor | nitoring well, aeria | l photos | , previous | s inspect | tions), if available: | | | | |
| Remarks: | | | | | | | | | | | |
| | ology is indicated. | | | | | | | | | | |
| , | | | | | | | | | | | |
| | | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (O | RD) | City/Cou | inty: Chicag | o/Cook | Sampling Date | e: 7/29/20 | 19 |
|--|---|----------------|--------------------|--|-------------------|---------------|-------------|
| Applicant/Owner: City of Chicago | , | ` | , <u> </u> | State: IL | Sampling Poir | nt: NW19-04 | 4 UPL |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Shanno | n, Mead & Hunt, In | c. Section, | Township, Ra | ange: Section 36, T41N | I, R11E | | |
| Landform (hillside, terrace, etc.): midslope | · · · · · · · · · · · · · · · · · · · | | | concave, convex, none): | | | |
| Slope (%): <1% Lat: 42.00476439 | | | 87.934864 | | Datum: WGS84 | | |
| | 10/ 11 | | 07.00+00+ | | | | |
| Soil Map Unit Name: 533 - Urban land (Non-hydric (C | • | | ., ., | NWI classi | - | ` | |
| Are climatic / hydrologic conditions on the site typica | | • | Yes X | ` | | | |
| Are Vegetation, Soil, or Hydrology | | | Are "Normal (| Circumstances" present? | Yes X | No | |
| Are Vegetation, Soil, or Hydrology | _naturally prob | olematic? | (If needed, ex | xplain any answers in Re | marks.) | | |
| SUMMARY OF FINDINGS – Attach site r | nap showir | ng samplir | ng point lo | ocations, transects | , important f | eatures, e | etc. |
| Hydrophytic Vegetation Present? Yes | No X | Is the | Sampled A | rea | | | |
| | No X | | n a Wetland | | No X | | |
| | No X | | | | <u> </u> | | |
| Remarks: | | | | | | | |
| Tromano. | | | | | | | |
| | | | | | | | |
| VEGETATION – Use scientific names of p | lants. | | | | | | |
| | Absolute | Dominant | Indicator | | | | |
| Tree Stratum (Plot size:) | % Cover | Species? | Status | Dominance Test wo | rksheet: | | |
| 1 | | | | Number of Dominant | • | | |
| 2 | | | | Are OBL, FACW, or F | AC: | <u> </u> | ۹) |
| 3. | | | | Total Number of Dom | inant Species | 0 /5 | ٦, |
| 5. | | | | Across All Strata: | | (E | 3) |
| J | | =Total Cover | | Percent of Dominant Are OBL, FACW, or F | • | 0.0% (A | 4/B) |
| Sapling/Shrub Stratum (Plot size: | | - Total Gover | | AIC OBE, I AOVV, OI I | | 0.070 | 4 D) |
| 1. | _′ | | | Prevalence Index we | orksheet: | | |
| 2. | | | | Total % Cover of | f: Multi | ply by: | |
| 3. | | | | OBL species (| x 1 = | 0 | |
| 4. | | | | FACW species (|) x 2 = | 0 | |
| 5 | | | | FAC species (|) x 3 = | 0 | |
| | : | =Total Cover | | | 5 x 4 = | 60 | |
| Herb Stratum (Plot size: 5ft) | | | | UPL species 8 | | 425 | |
| 1. Dipsacus laciniatus | 50 | Yes | UPL | | 00 (A) | | 3) |
| 2. Securigera varia | 25 | Yes | UPL | Prevalence Index | = B/A = <u>4</u> | .85 | |
| 3. Daucus carota | | No No | <u>UPL</u> FACU | Lively and the Manager | lian Indiantora | | |
| Melilotus officinalis Solidago altissima | 5 5 | No No | FACU | Hydrophytic Vegetat 1 - Rapid Test for | | actation | |
| 6. Plantago lanceolata | 5 | No | FACU | 2 - Dominance Te | | getation | |
| 7. | | 110 | 1700 | 3 - Prevalence In | | | |
| 8. | | | | 4 - Morphological | | rovide suppo | ortino |
| 9. | | | | | ks or on a separa | | Ĭ |
| 10. | | | | Problematic Hydr | ophytic Vegetati | on¹ (Explain) |) |
| | 100 | Total Cover | | ¹ Indicators of hydric s | oil and wetland h | nydrology mi | ust |
| Woody Vine Stratum (Plot size: | | | | be present, unless dis | | | |
| 1 | | | | Hydrophytic | | | |
| 2 | | | | Vegetation | | | |
| | : | =Total Cover | | Present? Yes | No | X | |
| Remarks: (Include photo numbers here or on a sep Community Type: developed land HGM Type: I | oarate sheet.) N/A Hydroph | ytic vegetatio | n is not prese | | | | |

SOIL Sampling Point: NW19-04 UPL

| Profile Des Depth | scription: (Describe Matrix | to the dep | | ument t x Featur | | ator or o | confirm the absence | of indicators | .) | |
|------------------------|-----------------------------------|--------------|-------------------------|----------------------------|----------------------|------------------|-----------------------|-----------------------------------|--------------|--------------|
| (inches) | Color (moist) | % | Color (moist) | % " Catur | Type ¹ | Loc ² | Texture | | Remarks | |
| 0-4 | 7.5YR 4/2 | 100 | Oolor (moist) | | . , po | | Loamy/Clayey | | TCHIAIRS | |
| • | - | | 7 FVD 4/C | | | | | Descriptor | .4 | |
| 4-7 | 7.5YR 4/2 | 98 | 7.5YR 4/6 | 2 | С | <u>M</u> | Loamy/Clayey | Prominer | t redox conc | entrations |
| 7-16 | 7.5YR 4/2 | 100 | | | | | Loamy/Clayey | | | |
| | | | | | | | | | | |
| | | | | | | | | - | | |
| | | | | | | | | | | |
| | - | | | | | | | | | |
| ¹ Type: C=C | Concentration, D=De | oletion. RM | =Reduced Matrix. N | /S=Mas | ked Sand | d Grains | ² Locatio | n: PL=Pore Lir | ning, M=Matr | ix. |
| | Indicators: | , | , | | | | | rs for Probler | | |
| Histoso | l (A1) | | Sandy Gle | yed Mat | rix (S4) | | Coa | st Prairie Redo | x (A16) | |
| Histic E | pipedon (A2) | | Sandy Red | lox (S5) | | | Iron | -Manganese M | asses (F12) | |
| Black H | listic (A3) | | Stripped M | latrix (Se | 6) | | Red | Parent Materia | al (F21) | |
| Hydrog | en Sulfide (A4) | | Dark Surfa | ce (S7) | | | Very | / Shallow Dark | Surface (F22 | 2) |
| Stratifie | ed Layers (A5) | | Loamy Mu | cky Min | eral (F1) | | Othe | er (Explain in R | temarks) | |
| 2 cm M | uck (A10) | | Loamy Gle | yed Ma | trix (F2) | | | | | |
| Deplete | ed Below Dark Surfac | e (A11) | Depleted N | ∕latrix (F | 3) | | | | | |
| Thick D | ark Surface (A12) | | Redox Dar | | ` ' | | | ors of hydrophy | _ | |
| Sandy I | Mucky Mineral (S1) | | Depleted [| | |) | | and hydrology | | |
| 5 cm M | ucky Peat or Peat (S | 3) | Redox Dep | ression | s (F8) | | r problematic | | | |
| Restrictive | Layer (if observed) | : | | | | | | | | |
| Type: | | | | | | | | | | |
| Depth (| inches): | | | | | | Hydric Soil Preser | nt? | Yes | No X |
| Remarks: | | | | | | • | | | | |
| Hydric soils | are not present. Do | es not mee | t hydric soils criteria | а. | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| HYDROL | | | | | | | | | | |
| _ | ydrology Indicators | | | | | | | | | |
| | icators (minimum of | one is requ | | | | | | ary Indicators (| | wo required) |
| | Water (A1) | | Water-Stai | | ` ' | | | ace Soil Crack | ` ' | |
| | ater Table (A2) | | Aquatic Fa | | - | | | nage Patterns | , | |
| | ion (A3) | | True Aqua | | ` ' | | | Season Water | | |
| | Marks (B1) | | Hydrogen | | , | , | | /fish Burrows (| - | (CO) |
| | ent Deposits (B2) eposits (B3) | | Oxidized R | | | _ | · · · · — | ration Visible | | |
| | at or Crust (B4) | | Presence of Recent Iro | | | | | nted or Stresse morphic Positi | | |
| | posits (B5) | | Thin Muck | | | ileu Soil | ` ' | :-Neutral Test (| . , | |
| | ion Visible on Aerial | Imagery (B | | | , , | | | -Neutral Test (| (D3) | |
| | ly Vegetated Concav | | · — | | , , | | | | | |
| Field Obse | | o Garrago (i | Other (EXP | | tomarko) | | T | | | |
| | | 00 | No. Y | Denth (i | nchee). | | | | | |
| Water Table | | es es | | | nches): _ nches): | | | | | |
| Saturation F | | es es | | | nches): | | Wetland Hydrolo | av Present? | Yes | No X |
| | apillary fringe) | | NO X | Deptii (i | | | - Welland Hydroic | gy Fresent: | 163 | NO X |
| | ecorded Data (stream | n gauge, m | onitoring well. aeria | l photos | . previou | s inspec | tions), if available: | | | |
| | (| | - | | , | | ,, | | | |
| Remarks: | | | | | | | | | | |
| Wetland hy | drology is neither pre | sent nor in | dicated. | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (0 | ORD) | City/Cou | nty: Chicag | o/Cook | Sampling Date | 7/29/2019 |
|--|-----------------------|---------------|----------------|---|-------------------------------|--------------------------|
| Applicant/Owner: City of Chicago | • | _ | | State: IL | Sampling Point | : NW19-04 WET |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Shanr | non, Mead & Hunt, Ind | c. Section, T | ownship, Ra | ange: Section 36, T41N | I, R11E | |
| Landform (hillside, terrace, etc.): swale | | | Local relief (| concave, convex, none): | concave | |
| Slope (%): _ <1% Lat: 42.00470044 | | Long: - | 87.93491054 | 4 | Datum: WGS84 | |
| Soil Map Unit Name: 533 - Urban land (Non-hydric | (0%)) | | | NWI classi | fication: PEM | |
| Are climatic / hydrologic conditions on the site typic | | f vear? | Yes X | | |) |
| Are Vegetation, Soil, or Hydrology | | | | | · | |
| Are Vegetation , Soil , or Hydrology | | | | xplain any answers in Re | <u></u> | |
| SUMMARY OF FINDINGS – Attach site | | | | | • | atures, etc. |
| Hydrophytic Vegetation Present? Yes X Hydric Soil Present? Yes X Wetland Hydrology Present? Yes X Remarks: Mown occasionally. | No No | | Sampled A | | No | |
| YEGETATION – Use scientific names of | nlants | | | | | |
| VEGETATION - Ose scientific flames of | Absolute | Dominant | Indicator | 1 | | |
| <u>Tree Stratum</u> (Plot size: <u>30 ft</u>) | % Cover | Species? | Status | Dominance Test wo | rksheet: | |
| Populus deltoides . | 10 | Yes | FAC | Number of Dominant Are OBL, FACW, or I | • | 3 (A) |
| 3. 4. | | | | Total Number of Dom Across All Strata: | ninant Species | 3 (B) |
| 5 | 10 = | Total Cover | | Percent of Dominant Are OBL, FACW, or I | • | 00.0% (A/B) |
| Sapling/Shrub Stratum (Plot size:1. | _ ' | | | Prevalence Index w | orksheet: | |
| 1. 2. | | | | Total % Cover o | | ly by: |
| 3. | | | | - | x 1 = | 30 |
| 4. | | | | · · · · · · · · · · · · · · · · · · · | 0 x 2 = | 140 |
| 5. | | | | FAC species 1 | 0 x 3 = | 30 |
| | = | Total Cover | | FACU species | 0 x 4 = | 0 |
| Herb Stratum (Plot size: 5ft) | | | | | x 5 = | 0 |
| 1. Phalaris arundinacea | 60 | Yes | FACW | | 10 (A) | 200 (B) |
| 2. Lythrum salicaria | 30 | Yes | OBL | Prevalence Index | = B/A = 1.8 | 32 |
| Phragmites australis 4. | 10 | <u>No</u> | FACW | Hydrophytic Vegeta | tion Indicators: | |
| 5. | | | | X 1 - Rapid Test for | | etation |
| 6 | _ | | | X 2 - Dominance T | | station |
| 7. | | | | X 3 - Prevalence In | | |
| 8. | | | | 4 - Morphologica | Adaptations ¹ (Pro | ovide supporting |
| 9. | | | | data in Remar | ks or on a separat | e sheet) |
| 10 | | | | Problematic Hyd | rophytic Vegetatio | n ¹ (Explain) |
| Woody Vine Stratum (Plot size: | 100 = | Total Cover | | ¹ Indicators of hydric s be present, unless dis | • | ••• |
| 1. | | | | Hydrophytic | | |
| 2 | | Total Cover | | Vegetation | | |
| | | | | Present? Yes | X No | |

SOIL Sampling Point: NW19-04 WET

| | ription: (Describe | o the dep | | | | tor or o | confirm the a | absence | of indicators.) | | |
|-------------------------|---|--------------|-----------------------|-------------|-------------------|------------------|-----------------|------------------------|--|--|--|
| Depth | Matrix | | | x Featur | | . 2 | _ | | | | |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | <u>%</u> | Type ¹ | Loc ² | Textu | | Remarks | | |
| 0-3 | 7.5YR 4/2 | 100 | | | | | Loamy/C | layey | clay | | |
| 3-9 | 7.5YR 4/2 | 90 | 7.5YR 4/6 | _10 | С | M | Loamy/C | layey | Prominent redox concentrations | | |
| 9-16 | 7.5YR 4/1 | 90 | 7.5YR 4/6 | _10 | C | M | Loamy/C | layey | Prominent redox concentrations | | |
| | | | | | | | | | | | |
| | | | | | - | | | _ | | | |
| | | | | | | | | | | | |
| | | | | | - | | | - | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion RM= | Reduced Matrix N | AS=Masl | ed Sand | Grains | | ² l ocation | n: PL=Pore Lining, M=Matrix. | | |
| Hydric Soil | | otion, rtivi | Troduced Matrix, N | io ividoi | itou ourio | Cianio | | | rs for Problematic Hydric Soils ³ : | | |
| Histosol | | | Sandy Gle | ved Mati | rix (S4) | | | | st Prairie Redox (A16) | | |
| | ipedon (A2) | | Sandy Red | | () | | - | | Manganese Masses (F12) | | |
| Black His | | | Stripped M | | 3) | | - | | Parent Material (F21) | | |
| | n Sulfide (A4) | | Dark Surfa | • | , | | - | | Shallow Dark Surface (F22) | | |
| | Layers (A5) | | Loamy Mu | , , | eral (F1) | | - | | er (Explain in Remarks) | | |
| 2 cm Mu | • , , | | Loamy Gle | - | | | - | | / | | |
| | Below Dark Surface | (A11) | X Depleted N | | | | | | | | |
| | rk Surface (A12) | , | Redox Dar | | • | | : | ³ Indicato | rs of hydrophytic vegetation and | | |
| | ucky Mineral (S1) | | Depleted D | ark Sur | face (F7) | | | wetla | and hydrology must be present, | | |
| 5 cm Mu | cky Peat or Peat (S3 |) | Redox Dep | ressions | s (F8) | | | unles | ss disturbed or problematic. | | |
| Restrictive I | _ayer (if observed): | | | | | | | | | | |
| Type: | , | | | | | | | | | | |
| - | Depth (inches): Hydric Soil Present? Yes X No | | | | | | | | | | |
| Remarks: | | | | | | | | | | | |
| | are present. Hydric s | oils indica | tor Depleted Matrix | (F3) is s | satisfied. | | | | | | |
| | | | | () | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| HYDROLO | GY | | | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | | | |
| | cators (minimum of o | ne is requi | red; check all that a | apply) | | | | Seconda | ry Indicators (minimum of two required) | | |
| Surface ' | Water (A1) | | Water-Stai | ned Lea | ves (B9) | | | X Surfa | ace Soil Cracks (B6) | | |
| High Wa | ter Table (A2) | | Aquatic Fa | una (B1 | 3) | | _ | Drair | nage Patterns (B10) | | |
| Saturation | on (A3) | | True Aqua | tic Plant | s (B14) | | | Dry-S | Season Water Table (C2) | | |
| Water M | arks (B1) | | Hydrogen | Sulfide C | Odor (C1) |) | | Cray | fish Burrows (C8) | | |
| Sedimen | t Deposits (B2) | | Oxidized R | Rhizosph | eres on L | iving R | oots (C3) | Satu | ration Visible on Aerial Imagery (C9) | | |
| Drift Dep | osits (B3) | | Presence of | of Reduc | ced Iron (| C4) | _ | Stun | ted or Stressed Plants (D1) | | |
| Algal Ma | t or Crust (B4) | | Recent Iro | n Reduc | tion in Til | led Soil | s (C6) | X Geor | morphic Position (D2) | | |
| | osits (B5) | | Thin Muck | | | | | X FAC | -Neutral Test (D5) | | |
| | on Visible on Aerial Ir | | · | | | | | | | | |
| Sparsely | Vegetated Concave | Surface (E | 38)Other (Exp | lain in R | lemarks) | | _ | | | | |
| Field Obser | vations: | | | | | | | | | | |
| Surface Wat | er Present? Yes | s | | | nches): _ | | | | | | |
| Water Table | | s | | | nches): _ | | | | | | |
| Saturation P | | s | No X | Depth (ii | nches): | | Wetland | Hydrolo | gy Present? Yes X No | | |
| (includes cap | | | ., | | | | | | | | |
| Describe Re | corded Data (stream | gauge, mo | onitoring well, aeria | l photos, | , previous | inspec | tions), if avai | lable: | | | |
| Remarks: | | | | | | | | | | | |
| | rology is indicated. S | urface soil | cracks throughout | flatter a | reas of w | etland. | | | | | |
| | g,a.ca.ca. c | | | | •. •• | | | | | | |
| | | | | | | | | | | | |

| Appolicant/Owner | Project/Site: Chicago O'Hare International Airport | (ORD) | City/Coun | ty: Chicag | o/Cook or DuPage | Sampling Date: | : 8/12/2019 |
|---|---|-------------------------|-------------|---------------|-------------------------|--------------------|--------------------------|
| Local relief (concave, convex, none) | Applicant/Owner: City of Chicago | | | | State: IL | Sampling Point | : NW19-12 UPL |
| Slope (%): | Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Shai | nnon, Mead & Hunt, Inc. | Section, To | wnship, Ra | ange: Section 36, T41N | , I, R11E | |
| Slope (%): | Landform (hillside, terrace, etc.): | | _ Lo | ocal relief (| concave, convex, none): | convex | |
| Note Continue Co | | | | 7.93357294 | 1 | Datum: WGS84 | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | | ; (0%)) | | | | ification: | |
| Are Vegetation X , Soil X , or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No X within a Wetland? Yes No X Wetland Hydrology Present? VEGETATION — Use scientific names of plants. VEGETATION — | | | vear? Y | 'es X | | - | |
| State Stat | | | - | | | | |
| SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes | | | | | | | ·· |
| Wetland Hydrology Present? Yes | | | | | • | , | atures, etc. |
| Wetland Hydrology Present? Yes | Hydrophytic Vegetation Present? Yes X | No | Is the | Sampled A | rea | | |
| Remarks: Mown; soils disturbed due to grading to east; altered hydrology present. | | No X | | - | | No_X_ | |
| VEGETATION - Use scientific names of plants. Absolute Species? Status Stat | Wetland Hydrology Present? Yes | No X | | | | · | |
| VEGETATION – Use scientific names of plants. Absolute % Cover % Species? Dominant Indicator Status Dominant Indicator Status Dominance Test worksheet: Indicator Status Dominance Test worksheet: Mumber of Dominant Species That Are OBL, FACW, or FAC: 2 (A) 2. 3. | Remarks: | | | | | | |
| Absolute | Mown; soils disturbed due to grading to east; alte | red hydrology pres | ent. | | | | |
| Absolute | | | | | | | |
| Tree Stratum | VEGETATION – Use scientific names of | • | | | | | |
| 2. | Tree Stratum (Plot size:) | | | _ | Dominance Test wo | rksheet: | |
| Total Number of Dominant Species | | | | | | • | |
| Across All Stratus | _ | | | | Are OBL, FACW, or I | FAC: | (A) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B) | | | | | | inant Species | 2 (D) |
| Are OBL, FACW, or FAC: 66.7% (A/B) | 4. | | | | | | (B) |
| Sapling/Shrub Stratum Plot size: | 5 | | Total Cover | | | • | 66.7% (Δ/R) |
| Prevalence Index worksheet: Total % Cover of: Multiply by: | Sapling/Shrub Stratum (Plot size: | | Total Gover | | AIC OBE, I AOW, OI | <u> </u> | <u>50.770</u> (A/B) |
| Total % Cover of: Multiply by: | | | | | Prevalence Index w | orksheet: | |
| 4. | | | | | Total % Cover o | f: Multip | ly by: |
| FAC species 25 x 3 = 75 FACU Species 65 x 4 = 260 FACU Species 65 x 4 = 260 FACU Species 65 x 4 = 260 FACU Species 10 x 5 = 50 FACU Species | 3. | | | | OBL species | 0 x 1 = | 0 |
| Herb Stratum | 4. | | | | FACW species 1 | 0 x 2 = | 20 |
| Herb Stratum | 5. | | | | FAC species 2 | 25 x 3 = | 75 |
| 1. Dipsacus fullonum 50 Yes FACU 2. Poa pratensis 20 Yes FAC 3. Dipsacus laciniatus 4. Elymus repens 50 No FACU 4. Elymus repens 51 No FACU 55 Prunella vulgaris 56 FACU 66 Erigeron strigosus 77. Melilotus officinalis 8 2 No FACU 9. 10 STACU 10 | | = | Total Cover | | FACU species6 | 55 x 4 = | 260 |
| 2. Poa pratensis 3. Dipsacus laciniatus 4. Elymus repens 5. Prunella vulgaris 6. Erigeron strigosus 7. Melilotus officinalis 8. 9. 10. No FACU 9. 10. ■ Total Cover Woody Vine Stratum 1. Vitis riparia 1. Vitis riparia 1. Vitis riparia 2. No FACU 1. Prevalence Index = B/A = 3.68 Prevalence Index = B/A = 5.68 Prevalence Index = B/A = 5. | Herb Stratum (Plot size: 5ft) | | | | | 0 x 5 = | |
| 3. Dipsacus laciniatus 4. Elymus repens 5. Prunella vulgaris 6. Erigeron strigosus 7. Melilotus officinalis 8. 2 No FACU 9. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 10. Problematic Hydrophytic Vegetation¹ 11. Vitis riparia 12. Vitis riparia 13. No FACU 14. Hydrophytic Vegetation² (Plot size: 15ft) 15. Vitis riparia 10. Yes FACW Remarks: (Include photo numbers here or on a separate sheet.) | | | | | | | |
| 4. Elymus repens 5. Prunella vulgaris 6. Erigeron strigosus 7. Melilotus officinalis 8. | | | | | Prevalence Index | = B/A =3.6 | 38 |
| 5 No FAC 6. Erigeron strigosus 7. Melilotus officinalis 8. 2 No FACU 9. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 10. 100 = Total Cover Woody Vine Stratum 1. Vitis riparia 1. Vi | | | | | | | |
| 6. Erigeron strigosus 7. Melilotus officinalis 2 No FACU 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 10. Problematic Hydrophytic Vegetation¹ (Explain) 100 =Total Cover Woody Vine Stratum 1. Vitis riparia 100 Yes FACW 1. Vitis riparia 100 Tyes FACW 100 Tyes Tyes Tyes Tyes Tyes Tyes Tyes Tyes | | | | | | | -4-4: |
| 7. Melilotus officinalis 2 No FACU 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 10. Problematic Hydrophytic Vegetation¹ (Explain) 10. Total Cover Woody Vine Stratum (Plot size: 15ft) 1. Vitis riparia 10 Yes FACW Hydrophytic Vegetation Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.) | | | | | | | etation |
| 8 | | | | | | | |
| 9 data in Remarks or on a separate sheet) 10 100 =Total Cover Woody Vine Stratum (Plot size: 15ft) 1. Vitis riparia 100 =Total Cover 1 | | | INO _ | TACO | | | ovide supporting |
| 10. Problematic Hydrophytic Vegetation¹ (Explain) 100 =Total Cover Noody Vine Stratum | - | | | | · · · | | |
| Moody Vine Stratum | · ———————————————————————————————————— | | | | Problematic Hvd | rophytic Vegetatio | n ¹ (Explain) |
| Woody Vine Stratum 1. Vitis riparia 2. | | 100 = | Total Cover | | | | |
| 1. Vitis riparia 2. | Woody Vine Stratum (Plot size: 15ft |) | | | | | |
| 2 | | 10 | Yes | FACW | | · | |
| Temarks: (Include photo numbers here or on a separate sheet.) Present? Yes X No | 2. | | | | | | |
| | | 10 = | Total Cover | | | X No | |
| | • | . , | | | • | | |

SOIL Sampling Point: NW19-12 UPL

| Profile Des Depth | cription: (Describe Matrix | to the dept | | ument t x Featur | | itor or c | confirm the absence | of indicators.) | | |
|------------------------|--|-------------------------|-----------------------|----------------------------|-------------------|------------------|------------------------|-------------------|--------------|-------------|
| (inches) | Color (moist) | % | Color (moist) | % " Catur | Type ¹ | Loc ² | Texture | ı | Remarks | |
| 0-6 | 10YR 3/2 | 100 | Color (moist) | | . , po | | Loamy/Clayey | | silt loam | |
| | | | | | | | | | | |
| 6-14 | 10YR 3/2 | 70 | | | | | Loamy/Clayey | disturbe | d; some pel | obies |
| - | 10YR 4/6 | 30 | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | 1 | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| ¹ Type: C=C | Concentration, D=Dep | letion. RM= | Reduced Matrix. N | MS=Mas | ked Sand | Grains | 2Location | : PL=Pore Linin | g. M=Matrix | ί. |
| | Indicators: | | | | | | | s for Problema | | |
| Histoso | | | Sandy Gle | ved Mat | rix (S4) | | | t Prairie Redox | - | |
| | pipedon (A2) | | Sandy Red | | | | | Manganese Mas | | |
| | listic (A3) | | Stripped M | | | | | Parent Material (| | |
| | en Sulfide (A4) | | Dark Surfa | • | , | | | Shallow Dark Si | , |) |
| | d Layers (A5) | | Loamy Mu | cky Min | eral (F1) | | Other | r (Explain in Rer | narks) ` ´ | |
| | uck (A10) | | Loamy Gle | - | | | | | , | |
| Deplete | d Below Dark Surface | e (A11) | Depleted N | | | | | | | |
| | ark Surface (A12) | , , | Redox Dar | k Surfac | ce (F6) | | ³ Indicator | s of hydrophytic | vegetation | and |
| Sandy N | Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3) Depleted Dark Surface (F7) Redox Depressions (F8) | | | | | | | nd hydrology mi | ust be prese | ent, |
| 5 cm M | ucky Peat or Peat (S3 | 3) | Redox Dep | ression | s (F8) | | unles | s disturbed or p | roblematic. | |
| Restrictive | Restrictive Layer (if observed): | | | | | | | | | |
| Type: | , | | | | | | | | | |
| Depth (i | inches): | | | | | | Hydric Soil Present | ? | Yes | No X |
| Remarks: | | | | | | | | | | |
| | are not present. Does | s not meet | hydric soils criteria | | | | | | | |
| | • | | , | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| HYDROL | OGY | | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | | |
| | icators (minimum of c | ne is requir | ed; check all that a | apply) | | | Secondar | y Indicators (mi | nimum of tw | o required) |
| Surface | Water (A1) | | Water-Stai | ned Lea | aves (B9) | | Surfa | ce Soil Cracks (| B6) | |
| High W | ater Table (A2) | | Aquatic Fa | una (B1 | 3) | | Drain | age Patterns (B | 10) | |
| Saturati | on (A3) | | True Aqua | tic Plant | ts (B14) | | Dry-S | Season Water Ta | able (C2) | |
| Water N | //arks (B1) | | Hydrogen | Sulfide (| Odor (C1 |) | Crayf | ish Burrows (C8 | 3) | |
| Sedime | nt Deposits (B2) | | Oxidized R | Rhizosph | eres on l | iving R | oots (C3) Satur | ation Visible on | Aerial Imag | ery (C9) |
| Drift De | posits (B3) | | Presence of | of Redu | ced Iron (| C4) | Stunt | ed or Stressed I | Plants (D1) | |
| Algal M | at or Crust (B4) | | Recent Iron | n Reduc | ction in Ti | lled Soil | · · · | norphic Position | | |
| | posits (B5) | | Thin Muck | | ` ' | | FAC- | Neutral Test (D | 5) | |
| | ion Visible on Aerial I | | | | | | | | | |
| Sparsel | y Vegetated Concave | Surface (B | 88)Other (Exp | lain in F | Remarks) | | | | | |
| Field Obse | | | | | | | | | | |
| Surface Wa | iter Present? Ye | s | | | nches): | | | | | |
| Water Table | e Present? Ye | s | | | nches): | | | | | |
| Saturation F | | s | No X | Depth (i | nches): | | Wetland Hydrolog | gy Present? | Yes | No X |
| | pillary fringe) | | | | | | <u> </u> | | | |
| Describe Re | ecorded Data (stream | gauge, mo | nitoring well, aeria | l photos | , previou | sinspec | tions), if available: | | | |
| Domorko | | | | | | | | | | |
| Remarks: | drology is neither pres | ent nor ind | icated | | | | | | | |
| Stiana ny | a. sieg, ie neidlei ples | . J. I. III III III III | .53.54. | | | | | | | |
| | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (OR | .D) | City/Cou | nty: Chicag | o/Cook | Sampling Date: | 8/12/2019 |
|--|---------------------|-------------------|---------------------|---|-------------------------------|--------------------------|
| Applicant/Owner: City of Chicago | | | | State: IL | Sampling Point: | NW19-12 WET |
| Investigator(s): Brauna Hartzell, Kim Shannon, Mead & | & Hunt, Inc. | Section, T | ownship, Ra | ange: Section 36, T41N | , R11E | |
| Landform (hillside, terrace, etc.): shallow basin | | | | concave, convex, none): | | |
| Slope (%): _ <1% Lat: 42.00139217 | | | 87.93367659 | • | Datum: WGS84 | |
| Soil Map Unit Name: 533 - Urban land (Non-hydric (09 | %)) | | | | fication: PEM | |
| Are climatic / hydrologic conditions on the site typical 1 | | f vear? | Yes X | | | |
| Are Vegetation X , Soil X , or Hydrology X | | - | | Circumstances" present? | | |
| | | | | | | |
| Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site m | | | | xplain any answers in Re ocations, transects | • | atures, etc. |
| Hydric Soil Present? Yes X N Wetland Hydrology Present? Yes X N Remarks: | o o | withir | Sampled A | | No | |
| Mown periodically. Soils very disturbed and hydrology | y altered due t | to earth altera | ations. | | | |
| VEGETATION – Use scientific names of pla | ants. | | | | | |
| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test wo | rksheet: | |
| 1 | | | | Number of Dominant Are OBL, FACW, or F | • | 3(A) |
| 3. | | | | Total Number of Dom Across All Strata: | inant Species | 3 (B) |
| 5. | | Total Cover | | Percent of Dominant S | | 00.0% (A/B) |
| Sapling/Shrub Stratum (Plot size: | | - Total Gover | | AIC OBE, I AOW, OIT | 7.0. <u> </u> | (A/B) |
| 1. | | | | Prevalence Index wo | | |
| 2 | | | | Total % Cover of | · | |
| 3. | | | | OBL species 6 | | 68 |
| 5. | | | | ' <u></u> | 2 x2= 2 x3= | 64 |
| J | | Total Cover | | | x 3 = x 4 = | 0 |
| Herb Stratum (Plot size: 5ft) | | - Total Covel | | UPL species (| | 0 |
| 1. Eleocharis obtusa | 45 | Yes | OBL | Column Totals: 10 | | 138 (B) |
| Phragmites australis | 30 | Yes | FACW | Prevalence Index | `` | `′ |
| 3. Carex stipata | 20 | Yes | OBL | l revalence maex | | |
| 4. Lycopus americanus | 3 | No | OBL | Hydrophytic Vegetat | ion Indicators: | |
| 5. Apocynum cannabinum | 2 | No | FAC | X 1 - Rapid Test for | | tation |
| 6. | | | | X 2 - Dominance Te | | |
| 7. | | | | X 3 - Prevalence In | dex is ≤3.0 ¹ | |
| 8. | | | | 4 - Morphological | Adaptations ¹ (Pro | vide supporting |
| 9. | | | | data in Remark | ks or on a separate | e sheet) |
| 10. | | | | Problematic Hydr | ophytic Vegetation | n ¹ (Explain) |
| Woody Vino Stratum (Diet aize: 15ft | 100 = | Total Cover | | ¹ Indicators of hydric s | • | |
| Woody Vine Stratum (Plot size: 15ft 1. Vitis riparia | 2 | No | FACW | be present, unless dis | numeu or problem | allu. |
| 2. | | 140 | 1 ACVV | Hydrophytic Vegetation | | |
| | 2 = | Total Cover | | Present? Yes | X No | _ |
| Remarks: (Include photo numbers here or on a sepa | rate sheet.) | | | | | |
| Community Type: wet meadow HGM Type: depress | , | phytic vegeta | ition is prese | ent. | | |

SOIL Sampling Point: NW19-12 WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth | Matrix | | Redox | : Featur | es | | | | |
|-------------------------|---|----------------|-----------------------|-----------|-------------------|------------------|----------------|------------------------|--|
| (inches) | Color (moist) | <u> %</u> | Color (moist) | % | Type ¹ | Loc ² | Text | ure | Remarks |
| 0-6 | 10YR 3/2 | 100 | | | | | Loamy/ | Clayey | silt loam |
| 6-10 | 10YR 4/1 | 90 | 7.5YR 4/6 | 10 | С | PL/M | Loamy/ | Clayey | Prominent redox concentrations |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ¹ Type: C=Co | ncentration, D=De | pletion, RM= | Reduced Matrix, M | S=Mas | ked San | d Grains | | ² Location: | PL=Pore Lining, M=Matrix. |
| Hydric Soil I | ndicators: | | | | | | | Indicator | s for Problematic Hydric Soils ³ : |
| Histosol (| A1) | | Sandy Gley | ∕ed Mat | rix (S4) | | | Coas | t Prairie Redox (A16) |
| Histic Epi | pedon (A2) | | Sandy Red | ox (S5) | | | | Iron-N | Manganese Masses (F12) |
| Black His | tic (A3) | | Stripped M | atrix (S6 | 3) | | | Red F | Parent Material (F21) |
| Hydroger | Sulfide (A4) | | Dark Surfa | ce (S7) | | | | Very | Shallow Dark Surface (F22) |
| Stratified | Layers (A5) | | Loamy Mud | ky Mine | eral (F1) | | | Other | (Explain in Remarks) |
| 2 cm Mud | ck (A10) | | Loamy Gle | yed Mat | trix (F2) | | | · <u> </u> | |
| X Depleted | Below Dark Surfac | e (A11) | X Depleted M | latrix (F | 3) | | | | |
| Thick Da | rk Surface (A12) | | Redox Darl | k Surfac | e (F6) | | | ³ Indicator | s of hydrophytic vegetation and |
| Sandy M | ucky Mineral (S1) | | Depleted D | ark Sur | face (F7) |) | | wetla | nd hydrology must be present, |
| 5 cm Mud | 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) | | | | | | | unles | s disturbed or problematic. |
| Restrictive L | estrictive Layer (if observed): | | | | | | | | |
| Type: | hard compac | cted soil | | | | | | | |
| Depth (in | ches): | 10 | <u> </u> | | | | Hydric Sc | il Present | ? Yes X No |
| | Surface (A11) and D | Depleted Mat | rix (F3) are satisfie | d. | | | | | |
| HYDROLO | GY | | | | | | | | |
| Wetland Hyd | Irology Indicators | : | | | | | | | |
| | ators (minimum of | one is requir | | | | | | | y Indicators (minimum of two required) |
| | Vater (A1) | | X Water-Stair | | |) | | | ce Soil Cracks (B6) |
| | er Table (A2) | | Aquatic Fa | , | • | | | | age Patterns (B10) |
| Saturatio | | | True Aquat | | | | | | season Water Table (C2) |
| Water Ma | ` ' | | Hydrogen S | | • | • | . (00) | | ish Burrows (C8) |
| | Deposits (B2) | | X Oxidized R | • | | • | oots (C3) | | ation Visible on Aerial Imagery (C9) |
| | osits (B3) | | Presence of | | | ` ' | o (C6) | | ed or Stressed Plants (D1) norphic Position (D2) |
| Iron Depo | or Crust (B4) | | Recent Iror Thin Muck | | | illed Soli | s (CO) | | Neutral Test (D5) |
| | n Visible on Aerial | Imagery (R7 | | | | | | <u> </u> | Neutral Test (D3) |
| | Vegetated Concav | 0 , (| | | . , | 1 | | | |
| Field Observ | | | <u> </u> | | | | | | |
| Surface Wate | | es | No X I | Denth (i | nches): | | | | |
| Water Table | | es | | | nches): | | | | |
| Saturation Pr | | es | | | nches): | | Wetland | d Hydrolog | y Present? Yes X No |
| (includes cap | | | <u>//</u> | - op (. | _ | | | , | ,, |
| | orded Data (stream | n gauge, mo | nitoring well, aerial | photos | , previou | s inspec | tions), if ava | ailable: | |
| | | - - | | | • | | - | | |
| Remarks: | | | | | · <u> </u> | | | | |
| Wetland hydr | ology is indicated. | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport | t (ORD) | City/Cou | inty: Chicago | o/ DuPage | Sampling Date | e: <u>8/27/2019</u> |
|--|--------------------------|-------------------|---------------------|----------------------|----------------------------------|---------------------|
| Applicant/Owner: City of Chicago | | | - | State: IL | Sampling Poin | t: NW19-77 UPL |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Sha | annon, Mead & Hunt, Inc. | Section, | Township, Ra | ange: Section 1, T40 | N, R11E | |
| Landform (hillside, terrace, etc.): terrace | | _ | Local relief (| concave, convex, non | e): flat | |
| Slope (%): 1% Lat: 41.99176555 | | Long: - | -87.93584829 |) | Datum: WGS84 | |
| Soil Map Unit Name: 805B - Orthents, clayey, un | dulating (Predomina | | | | | |
| Are climatic / hydrologic conditions on the site typ | | | Yes X | | explain in Remarks. | |
| Are Vegetation X , Soil X , or Hydrology | | - | | | | |
| Are Vegetation, Soil, or Hydrology_ | <u></u> | | | | · | |
| SUMMARY OF FINDINGS – Attach sit | | | | | | eatures, etc. |
| Hydrophytic Vegetation Present? Yes | No X | Is the | Sampled A | rea | | |
| Hydric Soil Present? Yes | No X | | n a Wetland | | No _ X | |
| Wetland Hydrology Present? Yes | No X | | | | | |
| Remarks: | | | | | | |
| Area mown regularly; road fillslope and road cor | nstruction. | | | | | |
| | | | | | | |
| VEGETATION – Use scientific names of | of plants. | | | | | |
| <u>Tree Stratum</u> (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test v | vorksheet: | |
| 1. | 70 00001 | Орсскоз: | Otatus | Number of Domina | | |
| 2. | | | | Are OBL, FACW, of | • | 1 (A) |
| 3. | | | | Total Number of D | ominant Species | |
| 4 | | | | Across All Strata: | | 2 (B) |
| 5 | | | | Percent of Domina | • | |
| Cardina/Church Churchura (Diet einer | | Total Cover | | Are OBL, FACW, o | or FAC: | 50.0% (A/B) |
| Sapling/Shrub Stratum (Plot size:1. | ' | | | Prevalence Index | workshooti | |
| 3 | | | | Total % Cove | | ply by: |
| 3. | | | | OBL species | 0 x 1 = | 0 |
| 4. | | | | FACW species | 0 x 2 = | 0 |
| 5. | | | | FAC species | 35 x 3 = | 105 |
| | <u> </u> | Total Cover | | FACU species | 65 x 4 = | 260 |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 0 x 5 = | 0 |
| Schedonorus arundinaceus | 40 | Yes | FACU | Column Totals: | 100 (A) | 365 (B) |
| 2. Setaria pumila | 20 | Yes | FAC | Prevalence Inde | x = B/A = 3 | .65 |
| 3. Poa pratensis | 15 | No | FAC | | | |
| 4. Ambrosia artemisiifolia | 10 | No | FACU | Hydrophytic Vege | tation Indicators: | |
| 5. Plantago lanceolata | 5 | No | FACU | | for Hydrophytic Veg | getation |
| 6. Trifolium pratense | 5 | No | FACU | 2 - Dominance | | |
| 7. Glechoma hederacea | 5 | No | FACU | 3 - Prevalence | | |
| 8 | | | | | cal Adaptations ¹ (Pr | |
| 9 | | | | | arks or on a separa | * |
| 10 | | | | Problematic H | ydrophytic Vegetatio | on' (Explain) |
| | 100 = | Total Cover | | | c soil and wetland h | |
| Woody Vine Stratum (Plot size: |) | | | be present, unless | disturbed or probler | matic. |
| 1. | | | | Hydrophytic | | |
| 2 | | Total Cover | | Vegetation | ne Na | v |
| | | TOTAL COVER | | FIESCHIL! I | NU_ | <u>^</u> |
| Remarks: (Include photo numbers here or on a | separate sheet.) | Total Cover | | Present? Yo | No | |

SOIL Sampling Point: NW19-77 UPL

| | - | o the dep | | | | tor or o | confirm the absence | of indicators.) | |
|-------------------------|-------------------------|-------------|------------------------|-------------|----------------------------------|--------------------------------|------------------------|--|--|
| Depth | Matrix | | | k Featur | | . 2 | | | |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-6 | 7.5YR 3/1 | 100 | | | | | Loamy/Clayey | clay loam | |
| 6-9 | 7.5YR 3/1 | 90 | | | | | Loamy/Clayey | mixed matrix | |
| | 7.5YR 5/2 | 10 | | | | | Loamy/Clayey | clay, mixed matrix | |
| 9-16 | 10YR 2/1 | 100 | | | | | Loamy/Clayey | clay loam | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion RM: | =Reduced Matrix M | IS=Masl | ked Sand | Grains | ² l ocation | n: PL=Pore Lining, M=Matrix. | |
| Hydric Soil I | | Cuon, rum | -rtcaacca Matrix, IV | io-iviasi | ica Garia | Oranis | | rs for Problematic Hydric Soils ³ : | |
| Histosol | | | Sandy Gle | ved Mati | rix (S4) | | | st Prairie Redox (A16) | |
| | ipedon (A2) | | Sandy Red | | (- ') | | | Manganese Masses (F12) | |
| Black His | | | Stripped M | | 3) | | | Parent Material (F21) | |
| | n Sulfide (A4) | | Dark Surfa | , | , | | | Shallow Dark Surface (F22) | |
| | Layers (A5) | | Loamy Mu | cky Mine | eral (F1) | | | er (Explain in Remarks) | |
| 2 cm Mu | ck (A10) | | Loamy Gle | yed Mat | rix (F2) | | | | |
| Depleted | Below Dark Surface | (A11) | Depleted M | atrix (F | 3) | | | | |
| Thick Da | rk Surface (A12) | | Redox Dar | k Surfac | e (F6) | | ³ Indicato | rs of hydrophytic vegetation and | |
| Sandy M | ucky Mineral (S1) | | Depleted D | | wetla | and hydrology must be present, | | | |
| 5 cm Mu | cky Peat or Peat (S3 |) | Redox Dep | | unless disturbed or problematic. | | | | |
| Restrictive L | ayer (if observed): | | | | | | | | |
| Type: | | | | | | | | | |
| Depth (in | iches): | | | | | | Hydric Soil Presen | t? Yes No_X_ | |
| Remarks: | | | | | | | | | |
| | are not present. Does | not meet | hydric soils criteria | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| Wetland Hyd | drology Indicators: | | | | | | | | |
| Primary Indic | ators (minimum of o | ne is requi | ired; check all that a | apply) | | | Seconda | ry Indicators (minimum of two required) | |
| Surface \ | Water (A1) | | Water-Stai | ned Lea | ves (B9) | | Surfa | ace Soil Cracks (B6) | |
| High Wa | ter Table (A2) | | Aquatic Fa | una (B1 | 3) | | Drair | nage Patterns (B10) | |
| Saturatio | n (A3) | | True Aqua | tic Plant | s (B14) | | Dry-9 | Season Water Table (C2) | |
| Water Ma | arks (B1) | | Hydrogen S | | | | | fish Burrows (C8) | |
| | t Deposits (B2) | | Oxidized R | | | U | · / | ration Visible on Aerial Imagery (C9) | |
| | osits (B3) | | Presence of | | , | , | | ted or Stressed Plants (D1) | |
| | t or Crust (B4) | | Recent Iron | | | led Soil | ` ' | morphic Position (D2) | |
| | osits (B5) | (D : | Thin Muck | | | | FAC | -Neutral Test (D5) | |
| | on Visible on Aerial In | | · — | | | | | | |
| | Vegetated Concave | Surrace (i | 38) Other (Exp | iain in R | emarks) | | T | | |
| Field Observ | | | | | | | | | |
| Surface Wate | | ·— | | | nches): _ | | | | |
| Water Table | | <u> </u> | | | nches): _ | | Wetlend Hedrels | my Drecent2 Vec No V | |
| Saturation Pr | | <u> </u> | No <u>X</u> | Depth (ii | nches): | | Wetland Hydrolo | gy Present? Yes No X | |
| (includes cap | corded Data (stream | dalide m | onitoring well aerial | nhotos | previous | inspec | tions) if available | | |
| Peseume I/e | Solded Data (Stiedill | gauge, III | ormorning well, aerial | priotos, | , provious | , mapec | aono, ii avallable. | | |
| Remarks: | | | | | | | | | |
| | rology is neither pres | ent nor ind | dicated. | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (ORI | D) | City/Cour | nty: Chicag | o/DuPage | Sampling Da | te: 8/27/2019 |
|--|---------------------|-------------------|---------------------|-----------------------------------|--------------------------------|----------------------------|
| Applicant/Owner: City of Chicago | | | | State: IL | Sampling Poi | nt: NW19-77 WET |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Shannon, | Mead & Hunt, In | c. Section, T | ownship, Ra | ange: Section 1, T40l | _ N, R11E | |
| Landform (hillside, terrace, etc.): shallow swale | | | | concave, convex, none | | |
| Slope (%): <1% Lat: 41.99181191 | | | , | 9 | · | 4 |
| Soil Map Unit Name: 805B - Orthents, clayey, undulating | | | | | | |
| | | | | | | - \ |
| Are climatic / hydrologic conditions on the site typical for | | | | No (If no, e | | |
| Are Vegetation X , Soil X , or Hydrology s | | | | | | NO |
| Are Vegetation, Soil, or Hydrologyi | | | | xplain any answers in F | , | |
| SUMMARY OF FINDINGS – Attach site ma | ap showir | ng samplin | g point lo | ocations, transec | ts, important | features, etc. |
| Hydrophytic Vegetation Present? Yes X No | | Is the | Sampled A | rea | | |
| | | within | n a Wetland | ? Yes X | No | |
| Wetland Hydrology Present? Yes X No | | | | | | |
| Remarks: | | | | | | |
| Mower ruts; area mown regularly. | | | | | | |
| | | | | | | |
| VEGETATION – Use scientific names of pla | | | | _ | | |
| <u>Tree Stratum</u> (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test w | orksheet: | |
| 1. | | | | Number of Domina | nt Species That | |
| 2. | | | | Are OBL, FACW, o | | 1 (A) |
| 3 | | | | Total Number of Do | minant Species | |
| 4 | | | | Across All Strata: | _ | 1(B) |
| 5 | | | | Percent of Dominar | • | 400.00((4./5) |
| Conline/Chrush Stratum /Dlat size | | =Total Cover | | Are OBL, FACW, o | r FAC: | 100.0% (A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | Prevalence Index | worksheet: | |
| 1 2. | | | | Total % Cover | | tiply by: |
| 3. | | | | OBL species | 10 x 1 = | |
| 4. | | | | FACW species | 65 x 2 = | 130 |
| 5. | | | | FAC species | 2 x 3 = | 6 |
| | : | =Total Cover | | FACU species | 0 x 4 = | 0 |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 0 x 5 = | 0 |
| 1. Echinochloa crus-galli | 50 | Yes | FACW | Column Totals: | 77 (A) | 146 (B) |
| 2. Persicaria pensylvanica | 10 | No No | FACW | Prevalence Inde | K = B/A = | 1.90 |
| Typha angustifolia Cyperus esculentus | 5 | No No | OBL FACW | Hydrophytic Vege | ation Indicators | |
| 5. Glyceria striata | 5 | No | OBL | | for Hydrophytic Ve | |
| 6. Populus tremuloides | 2 | No | FAC | X 2 - Dominance | | ogotation. |
| 7. | | | | X 3 - Prevalence | | |
| 8. | | | | 4 - Morphologic | al Adaptations ¹ (F | Provide supporting |
| 9. | | | | data in Rema | arks or on a separ | rate sheet) |
| 10 | | | | Problematic Hy | drophytic Vegetat | ion ¹ (Explain) |
| | 77 | =Total Cover | | ¹ Indicators of hydric | | |
| Woody Vine Stratum (Plot size: |) | | | be present, unless | disturbed or proble | ematic. |
| 1 | | | | Hydrophytic | | |
| 2 | | =Total Cover | | Vegetation | e V Na | |
| | | - rotal Cover | | Present? Ye | s <u>X</u> No_ | |
| Remarks: (Include photo numbers here or on a separal Community Type: wet meadow HGM Type: depres | , | rophytic veget | ation is pres | sent. Bare soil due to s | tanding water. | |

SOIL Sampling Point: NW19-77 WET

| | | o the dep | | | | tor or c | onfirm the absence | of indicators.) |
|-------------------------|-------------------------|-------------|-----------------------|-----------|-------------------|----------------------------------|-----------------------|--|
| Depth | Matrix | 0/ | | x Featur | | Loc ² | T | Develop |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | <u>%</u> | Type ¹ | Loc | Texture | Remarks |
| 0-7 | 7.5YR 2.5/1 | 100 | | | | | Loamy/Clayey | silty clay |
| 7-16 | 10YR 5/2 | 60 | 7.5YR 4/6 | 5 | <u>C</u> | <u>M</u> | Loamy/Clayey | Prominent redox concentrations |
| | 10YR 5/3 | 35 | | | | | Loamy/Clayey | loamy clay for this layer |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=Ce | oncentration, D=Depl | etion, RM | Reduced Matrix, N | 1S=Masl | ked Sand | Grains. | ² Location | r: PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Indicato | rs for Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Sandy Gle | yed Mat | rix (S4) | | Coas | st Prairie Redox (A16) |
| Histic Ep | ipedon (A2) | | Sandy Red | lox (S5) | | | Iron- | Manganese Masses (F12) |
| Black His | stic (A3) | | Stripped M | atrix (S6 | 6) | | Red | Parent Material (F21) |
| Hydroge | n Sulfide (A4) | | Dark Surfa | , , | | | Very | Shallow Dark Surface (F22) |
| Stratified | Layers (A5) | | Loamy Mu | cky Mine | eral (F1) | | Othe | er (Explain in Remarks) |
| 2 cm Mu | ` ' | | Loamy Gle | | | | | |
| | l Below Dark Surface | (A11) | X Depleted N | | 2 | | | |
| | rk Surface (A12) | | Redox Dar | | | rs of hydrophytic vegetation and | | |
| | lucky Mineral (S1) | | Depleted D | | | and hydrology must be present, | | |
| 5 cm Mu | cky Peat or Peat (S3 |) | Redox Dep | 1 | unle | ss disturbed or problematic. | | |
| | _ayer (if observed): | | | | | | | |
| Type: | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Presen | t? Yes X No |
| Remarks: | | | | | | | | |
| Hydric soils | are present. Hydric s | oils indica | tors Depleted Belov | w Dark S | Surface (A | A11) and | Depleted Matrix (F3) | are satisfied. |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | GY | | | | | | | |
| | drology Indicators: | | | | | | | |
| | cators (minimum of o | ne is requi | red check all that a | apply) | | | Seconda | ry Indicators (minimum of two required) |
| | Water (A1) | no io roqu | Water-Stai | | ves (B9) | | | ace Soil Cracks (B6) |
| | ter Table (A2) | | Aquatic Fa | | ` ' | | | nage Patterns (B10) |
| Saturation | , | | True Aqua | | - | | | Season Water Table (C2) |
| | arks (B1) | | Hydrogen | | , , |) | | fish Burrows (C8) |
| | t Deposits (B2) | | Oxidized R | | | | | ration Visible on Aerial Imagery (C9) |
| _ | osits (B3) | | Presence of | | | - | | ted or Stressed Plants (D1) |
| Algal Ma | t or Crust (B4) | | Recent Iro | n Reduc | tion in Til | led Soils | S (C6) X George | morphic Position (D2) |
| Iron Dep | osits (B5) | | Thin Muck | Surface | (C7) | | X FAC | -Neutral Test (D5) |
| Inundation | on Visible on Aerial In | nagery (B | 7) Gauge or \ | Well Dat | a (D9) | | . <u></u> - | |
| Sparsely | Vegetated Concave | Surface (I | 38)Other (Exp | lain in R | temarks) | | | |
| Field Obser | vations: | | | | | | | |
| Surface Wat | er Present? Yes | s | No X | Depth (i | nches): _ | | | |
| Water Table | Present? Yes | S | | Depth (i | nches): _ | | | |
| Saturation P | | <u> </u> | No <u>X</u> | Depth (i | nches):_ | | Wetland Hydrolo | gy Present? Yes X No |
| (includes cap | | | | | | | <u> </u> | |
| Describe Re | corded Data (stream | gauge, m | onitoring well, aeria | l photos | , previous | inspec | tions), if available: | |
| Remarks: | | | | | | | | |
| | ter and saturation wit | hin wetlan | d beyond sampling | area; w | etland hy | drology | is indicated. | |
| | | | | • | , | | | |
| | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (O | RD) | City/Cou | nty: Chicag | o/Cook | Sampling Dat | e: <u>9/9/2019</u> |
|---|---------------------|-------------------|---------------------|---|--|---------------------------|
| Applicant/Owner: City of Chicago | | | , | State: IL | Sampling Poil | nt: NW19-96 UPI |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Shanno | on, Mead & Hunt, In | c. Section, 7 | Γownship, Ra | inge: Section 30, T | 741N, R12E | |
| Landform (hillside, terrace, etc.): midslope | | | Local relief (| concave, convex, no | ne): convex | |
| Slope (%): 40 Lat: 42.00891889 | | | 87.91918299 | | Datum: WGS84 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly | level (Predom | | | | | |
| Are climatic / hydrologic conditions on the site typica | | | Yes | · | o, explain in Remarks | . \ |
| | | - | | | | |
| Are Vegetation, SoilX_, or Hydrology | | | | | | NO |
| Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site r | | | | xplain any answers i | • | ionturon etc |
| SUMMART OF FINDINGS - Attach site i | nap snown | ig sampim | ig point ic | cations, transe | ects, important i | eatures, etc. |
| | No X | | Sampled A | | | |
| | No X | withi | n a Wetland | ? Yes_ | NoX | |
| | No X | | | | | |
| Remarks: Climatic/hydrologic conditions are not typical due to Soils mixed and very gravelly. | an above aver | age amount o | of rainfall dur | ing September 2019 | 9. Hill slope for dike o | construction. |
| VEGETATION – Use scientific names of p | lants. | | | | | |
| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test | worksheet: | |
| 1. | | | | Number of Domir | nant Species That | |
| 2 | | | | Are OBL, FACW, | or FAC: | 0 (A) |
| 3. | | | | | Dominant Species | (D) |
| 4 | | | | Across All Strata | _ | (B) |
| 5 | | Total Cover | | Percent of Domir Are OBL, FACW, | nant Species That or FAC | 0.0% (A/B) |
| Sapling/Shrub Stratum (Plot size: | | | | , | _ | (1-) |
| 1. | - ' | | | Prevalence Inde | x worksheet: | |
| 2. | | | | Total % Cov | er of: Mult | iply by: |
| 3 | | | | OBL species | 2 x 1 = | 2 |
| 4 | _ | | | FACW species_ | | 0 |
| 5 | | | | FAC species | 0 x 3 = _ | 0 |
| Hards Objections (Dietains) 55 | | =Total Cover | | FACU species | 15 x 4 = | 60 |
| Herb Stratum (Plot size: 5ft) | 53 | Yes | UPL | UPL species Column Totals: | 78 x 5 = | 390 452 (B) |
| Dipsacus laciniatus Sisymbrium officinale | 25 | Yes | UPL | Prevalence Inc | | 452 (B) |
| Cirsium arvense | 15 | No | FACU | 1 TOVAICHEE III | JCX - B/A - | |
| Typha angustifolia | 2 | No | OBL | Hydrophytic Ved | getation Indicators: | |
| 5. | | | | | st for Hydrophytic Ve | getation |
| 6. | | | | 2 - Dominano | ce Test is >50% | - |
| 7. | | | | 3 - Prevalenc | ce Index is ≤3.0 ¹ | |
| 8. | | | | | gical Adaptations ¹ (P | |
| 9 | | | | | marks or on a separa | |
| 10 | | | | Problematic | Hydrophytic Vegetati | on ¹ (Explain) |
| Woody Vine Stratum (Plot size: | 95) | =Total Cover | | | lric soil and wetland l s disturbed or proble | |
| 1 | | | | Hydrophytic | | |
| 2 | | | | Vegetation | | |
| | | Total Cover | | Present? | Yes No _ | X |
| Remarks: (Include photo numbers here or on a ser | , | regetation is r | not present | | | |

SOIL Sampling Point: NW19-96 UPL

| Profile Desc | ription: (Describe | to the dept | h needed to doc | ument tl | ne indica | tor or c | confirm the absen | ce of indicators.) | |
|-------------------------|---|--------------------|----------------------|------------|-------------------|------------------------------|--|--|---------------|
| Depth | Matrix | | Redo | x Featur | es | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-3 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | silt loam | |
| 3-16 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | silt loam with g | ravel |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | _ | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | oncentration, D=Dep | letion, RM=I | Reduced Matrix, N | /IS=Mas | ked Sand | Grains | | ion: PL=Pore Lining, M=Ma | |
| Hydric Soil | | | | | | | | tors for Problematic Hydri | c Soils³: |
| Histosol | ` ' | | Sandy Gle | - | | | | past Prairie Redox (A16) | |
| | ipedon (A2) | | Sandy Red | | | | | on-Manganese Masses (F12 |) |
| Black His | | | Stripped M | • | 5) | | | ed Parent Material (F21) | |
| | n Sulfide (A4) | | Dark Surfa | | | | | ery Shallow Dark Surface (F | 22) |
| | Layers (A5) | | Loamy Mu | • | , , | | | ther (Explain in Remarks) | |
| 2 cm Mu | | (0.44) | Loamy Gle | | | | | | |
| | l Below Dark Surface irk Surface (A12) | e (A11) | Depleted N Redox Dar | , | • | | ³ India | ators of hydrophytic vegetation | on and |
| | lucky Mineral (S1) | | Depleted [| | ` ' | | | etland hydrology must be pre | |
| | cky Peat or Peat (S3 | 8) | Redox Dep | | | nless disturbed or problemat | | | |
| | | - | RCGOX DC | | ui ui | ileas disturbed of problemat | <u>. </u> | | |
| | Layer (if observed): | | | | | | | | |
| Type: | \· | | | | | | Undria Cail Broa | | Na V |
| Depth (ir | | | | | | | Hydric Soil Pres | ent? Yes | X |
| Remarks: | | La E. I. Incombata | | | | La calada | 11 1 | | |
| At hillslope to | or ditch and parking l | iot. Hydric s | olis are not preser | ii. Does | not meet | nyanc | solis criteria. | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| | | | | | | | | | |
| - | drology Indicators: | no io roguir | ad: abook all that | annly) | | | Sacan | dan Indicatora (minimum at | two required) |
| - | cators (minimum of c Water (A1) | nie is require | Water-Sta | | ves (R0) | | | dary Indicators (minimum of urface Soil Cracks (B6) | two required) |
| | ter Table (A2) | | Aquatic Fa | | ` ' | | | rainage Patterns (B10) | |
| Saturation | | | True Aqua | - | - | | | ry-Season Water Table (C2) | |
| | arks (B1) | | Hydrogen | | | | | rayfish Burrows (C8) | |
| | t Deposits (B2) | | Oxidized F | | | | | aturation Visible on Aerial Im | agery (C9) |
| | osits (B3) | | Presence | | | - | | unted or Stressed Plants (D | |
| Algal Ma | t or Crust (B4) | | Recent Iro | | | | s (C6) G | eomorphic Position (D2) | |
| Iron Dep | osits (B5) | | Thin Muck | Surface | (C7) | | F/ | AC-Neutral Test (D5) | |
| Inundation | on Visible on Aerial I | magery (B7) | Gauge or \ | Well Dat | a (D9) | | | | |
| Sparsely | Vegetated Concave | Surface (B | 8)Other (Exp | olain in R | temarks) | | | | |
| Field Obser | vations: | | | | | | | | |
| Surface Wat | er Present? Ye | es | No X | Depth (i | nches): | | | | |
| Water Table | Present? Ye | es | | Depth (i | _ | | | | |
| Saturation P | resent? Ye | es | No X | Depth (i | nches): | | Wetland Hydro | ology Present? Yes | No X |
| (includes cap | | | | | | | <u> </u> | | |
| Describe Re | corded Data (stream | gauge, mor | nitoring well, aeria | l photos | , previous | inspec | tions), if available: | | |
| Done | | | | | | | | | |
| Remarks: Wetland hvd | rology is neither pres | sent nor indi | cated About 5 fee | et senar | ates 2 det | a nointe | s with about 2ft in a | levation change | |
| vvotiana nyu | rology is helitier pies | JOIN HOI HIGH | oatoa. About o let | or achair | 1100 Z ual | a point | S WILL ADOUT ZIT III 6 | iovation change. | |
| | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (ORD |)) | City/Cou | ınty: Chicago | o/Cook or DuPage | Sampling Da | nte: 9/9/2 | 2019 |
|---|-------------------|--------------------|-------------------------|--|---------------------------------|-------------------------|--------------|
| Applicant/Owner: City of Chicago | | | | State: IL | Sampling Po | int: NW1 | 9-96 WET |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Shannon, N | /lead & Hunt, Inc | Section, | Township, Ra | nge: Section 30, T4 | — 1N, R12E | | |
| Landform (hillside, terrace, etc.): swale/basin | | _ | Local relief (d | concave, convex, non | e): Concave | | |
| Slope (%): <1% Lat: 42.00891184 | | Long: | -87.91920345 | | Datum: WGS8 | 4 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly lev | vel (Predomir | | | | ssification: PEM | | |
| Are climatic / hydrologic conditions on the site typical fo | | | | No X (If no, | | s.) | |
| Are Vegetation , Soil , or Hydrology s | | - | | | | • | |
| Are Vegetation , Soil , or Hydrology n | | | | plain any answers in | | | _ |
| SUMMARY OF FINDINGS – Attach site ma | | | | - | · | features | s, etc. |
| Hydric Soil Present? Yes X No | | | e Sampled A | | <u> No</u> | | |
| Climatic/hydrologic conditions are not typical due to an | above avera | age amount | of rainfall dur | ing September 2019. | Flowing water at r | north end. | |
| VEGETATION – Use scientific names of plan | nts. | | | | | | |
| | Absolute | Dominant | Indicator | | | | |
| Tree Stratum (Plot size:) 1. | % Cover | Species? | Status | Dominance Test v | | | |
| 2. | | | | Number of Domina Are OBL, FACW, o | • | 1 | _(A) |
| 3 | | | | Total Number of De Across All Strata: | ominant Species - | 1 | _(B) |
| 5 | = | Total Cover | | Percent of Domina Are OBL, FACW, o | • | 100.0% | _(A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | | | | |
| 1 | | | - | Prevalence Index Total % Cove | | Itiply by: | |
| | | | | OBL species | 100 x 1 = | 100 | _ |
| 4. | | | | FACW species | 0 x 2 = | | _ |
| 5. | | | | FAC species | 0 x 3 = | 0 | _ |
| | = | Total Cover | | FACU species | 0 x 4 = | 0 | _ |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 0 x 5 = | 0 | _ |
| 1. Typha angustifolia | 100 | Yes | OBL | Column Totals: | 100 (A) | 100 | _(B) |
| 2. 3. | | | | Prevalence Inde | X = B/A = | 1.00 | _ |
| 4. | | | | Hydrophytic Vege | | | |
| 5. 6. | | | | X 2 - Dominance | for Hydrophytic V | egetation | |
| 7. | | | | X 3 - Prevalence | | | |
| 8. | | | | | cal Adaptations ¹ (F | Provide su | pporting |
| 9. | | | | data in Rem | arks or on a sepa | rate sheet) |) |
| 10 | | | | Problematic H | ydrophytic Vegeta | tion ¹ (Expl | ain) |
| Woody Vine Stratum (Plot size:) | 100 = | Total Cover | | ¹ Indicators of hydri be present, unless | | | must |
| 1 | | | | Hydrophytic | | | |
| 2 | = | Total Cover | | Vegetation | es <u>X</u> No_ | | |
| Remarks: (Include photo numbers here or on a separa | | 4. Alea musec::4:: | a auka a Mikia wiga ada | Latherina adiabatic Access to | unda Camahurana a Oct | | |

SOIL Sampling Point: NW19-96 WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth | Matrix | | Redox | Featur | es | | | | | | | |
|---|----------------------------------|---------------|----------------------|------------------------|---|------------------|--|--|--|--|--|--|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | | | |
| 0-4 | 10YR 3/1 | 100 | | | _ | _ | Muck | | | | | |
| 4-8 | 10YR 4/1 | 98 | 5YR 4/4 | 2 | С | M | Loamy/Clayey | Prominent redox concentrations | | | | |
| 8-16 | 10YR 4/1 | 98 | 5YR 4/4 | 2 | | PL/M | Loamy/Clayey | bottom 2 layers clay loam with gravel | | | | |
| 0-10 | 1011(4/1 | | 311(4/4 | | | | Loanly/Clayey | bottom 2 layers day loam with graver | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| ¹ Type: C=Ce | oncentration, D=Depl | etion, RM=F | Reduced Matrix, M | IS=Masl | ked Sand | l Grains. | ² Location | n: PL=Pore Lining, M=Matrix. | | | | |
| Hydric Soil | Indicators: | | | | | | Indicators for Problematic Hydric Soils ³ : | | | | | |
| Histosol | (A1) | | Sandy Gley | ed Mat | rix (S4) | | Coa | st Prairie Redox (A16) | | | | |
| Histic Ep | ipedon (A2) | | Sandy Red | | | | | -Manganese Masses (F12) | | | | |
| Black Hi | ` ' | | Stripped M | | 6) | | | Parent Material (F21) | | | | |
| | n Sulfide (A4) | | Dark Surfa | , , | | | | / Shallow Dark Surface (F22) | | | | |
| | Layers (A5) | | Loamy Mud | • | , , | | Othe | er (Explain in Remarks) | | | | |
| X 2 cm Mu | , | | Loamy Gle | | | | | | | | | |
| | I Below Dark Surface | (A11) | X Depleted M | | 2 | | | | | | | |
| | rk Surface (A12) | | Redox Darl | | ³ Indicators of hydrophytic vegetation and | | | | | | | |
| Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Form Mucky Post or Post (S3) Reday Depressions (F8) | | | | | | | wetland hydrology must be present, | | | | | |
| 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) | | | | | | | unless disturbed or problematic. | | | | | |
| Restrictive I | Restrictive Layer (if observed): | | | | | | | | | | | |
| Type: | | | _ | | | | | | | | | |
| Depth (inches): | | | | | | | Hydric Soil Presen | t? Yes X No | | | | |
| Remarks: | | | | | | | | | | | | |
| - | | | rs Hydrogrn Sulfic | de (A4), | 2cm Mu | ck (A10) | , Depleted Below Da | rk Surface (A11) and | | | | |
| Depleted Ma | trix (F3) are satisfied | = | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| HYDROLO | GY | | | | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | | | | |
| Primary India | cators (minimum of o | ne is require | d; check all that a | apply) | | | <u>Seconda</u> | ary Indicators (minimum of two required) | | | | |
| X Surface | Water (A1) | | Water-Stair | ned Lea | ves (B9) | | Surf | ace Soil Cracks (B6) | | | | |
| X High Wa | ter Table (A2) | | Aquatic Fa | una (B1 | 3) | | Drai | nage Patterns (B10) | | | | |
| X Saturation | on (A3) | | True Aquat | ic Plant | s (B14) | | Dry- | Season Water Table (C2) | | | | |
| Water M | arks (B1) | | X Hydrogen S | | | | | fish Burrows (C8) | | | | |
| | t Deposits (B2) | | Oxidized R | | | - | | ration Visible on Aerial Imagery (C9) | | | | |
| | osits (B3) | | Presence of | | ` | , | | nted or Stressed Plants (D1) | | | | |
| | t or Crust (B4) | | Recent Iror | | | led Soils | ` ' | morphic Position (D2) | | | | |
| | osits (B5) | | Thin Muck | | | | <u>X</u> FAC | C-Neutral Test (D5) | | | | |
| | on Visible on Aerial Ir | | Gauge or V | | | | | | | | | |
| Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) | | | | | | | | | | | | |
| Field Obser | | | | | | | | | | | | |
| Surface Wat | | s <u>X</u> | | Depth (iı Depth (iı | nches): _ | 1 | | | | | | |
| Water Table | | s <u>X</u> | | 5 | | | | | | | | |
| Saturation P | | sX | No | Jepth (ii | nches): | U | Wetland Hydrolo | ogy Present? Yes X No | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe | | | | | | | Name (Marie 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 | | | | | |
| | , | gauge, mon | itoring well, aerial | pnotos, | , previous | sinspect | uons), ii avallable: | | | | | |
| Remarks: | land delineation. | | | | | | | | | | | |
| | rology is present and | indicated | | | | | | | | | | |
| | 3) p. 232 and | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (C | RD) | City/Cou | inty: Chicag | o/Cook | Sampling Da | ate: <u>9/17</u> | //2019 |
|---|-------------------|-----------------|-------------------|---------------------------|--|------------------|----------|
| Applicant/Owner: City of Chicago | | | | State: I | L Sampling Po | oint: NW | 39 UPL 1 |
| Investigator(s): Brauna Hartzell, Conor Makepeace, M | /lead & Hunt, Inc | Section, | Township, Ra | ange: Section 25, | T41N, R11E | | |
| Landform (hillside, terrace, etc.): midslope | | | Local relief (| concave, convex, r | none): convex | | |
| Slope (%): 3 Lat: 42.01082953 | | | 87.9236599 | | Datum: WGS8 | 34 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly | / level (Predomir | | | | | | |
| Are climatic / hydrologic conditions on the site typica | | | Yes | _ | no, explain in Remark | (a) | |
| | | - | | | | | |
| Are Vegetation, Soil, or Hydrology | | | | | | NO | _ |
| Are Vegetation, Soil, or Hydrology | naturally probl | ematic? (| (If needed, ex | kplain any answers | in Remarks.) | | |
| SUMMARY OF FINDINGS – Attach site I | map showing | g samplir | ng point lo | ocations, trans | ects, important | feature | s, etc. |
| Hydrophytic Vegetation Present? Yes X | No | Is the | Sampled A | rea | | | |
| | No | | n a Wetland | | No X | | |
| Wetland Hydrology Present? Yes | No X | | | - | | | |
| Remarks: | | - | | | | | |
| Climatic/hydrologic conditions are not typical due to | an above avera | ige amount | of rainfall dur | ring September 20 | 19. | | |
| | | | | | | | |
| VEGETATION – Use scientific names of p | lants. | | | | | | |
| Trace Objections (Distriction 00 ft | Absolute | Dominant | Indicator | B | -4 | | |
| Tree Stratum (Plot size: 30 ft) 1. Salix alba | % Cover 20 | Species? Yes | Status FACW | Dominance Te | | | |
| 2. | | 163 | TACV | Are OBL, FACV | inant Species That | 3 | (A) |
| 3. | _ | | | | f Dominant Species | | _('') |
| 4. | | | | Across All Strat | • | 4 | (B) |
| 5. | | | | Percent of Dom | inant Species That | | _ ` ′ |
| | 20 = | Total Cover | | Are OBL, FACV | • | 75.0% | (A/B) |
| Sapling/Shrub Stratum (Plot size: 15ft | _) | | | | | | |
| 1. Rhamnus cathartica | 30 | Yes | FAC | Prevalence Inc | | | |
| 2. | | | | Total % Co | | ıltiply by: | _ |
| 3. | | | | OBL species | 0 x 1 = | 0 | _ |
| 4 5. | _ | | | FACW species FAC species | | 40 195 | _ |
| J | 30 = | Total Cover | | FACU species | 65 x 3 = 57 x 4 = | 228 | _ |
| Herb Stratum (Plot size: 5ft) | | rotal Gover | | UPL species | 8 x 5 = | 40 | _ |
| 1. Solidago canadensis | 50 | Yes | FACU | Column Totals: | 150 (A) | 503 | (B) |
| 2. Rhamnus cathartica | 20 | Yes | FAC | Prevalence I | ndex = B/A = | 3.35 | _ ` ′ |
| 3. Apocynum cannabinum | 15 | No | FAC | | | | |
| 4. Symphyotrichum ericoides | 5 | No | FACU | Hydrophytic Ve | egetation Indicators | s: | |
| 5. Pastinaca sativa | 5 | No | UPL | | est for Hydrophytic V | egetation | |
| 6. Leucanthemum vulgare | 3 | No | UPL | | nce Test is >50% | | |
| 7. Oenothera gaura | 2 | No | FACU | | nce Index is ≤3.0 ¹ | D | |
| 8 | | | | | ogical Adaptations ¹ (emarks or on a sepa | | |
| 9. | | | | | • | | , |
| 10 | 100 = | Total Cover | | | Hydrophytic Vegeta | | , |
| Woody Vine Stratum (Plot size: | 100 = | i otal Gover | | | dric soil and wetland ss disturbed or prob | | / must |
| 1. | _' | | | | Gloral bod of prob | .5 | |
| 2. | | | | Hydrophytic Vegetation | | | |
| | | Total Cover | | Present? | Yes X No | | |
| Remarks: (Include photo numbers here or on a se | | | | <u> </u> | | | |
| Community Type: developed land HGM Type: Hydroph | . , | resent. Abou | t 2ft of elevatio | n change over about | 30ft between the paired | data points | |

SOIL Sampling Point: NW 39 UPL 1

| | | o tne dept | | | | ator or c | onfirm the absence of | of indicators.) |
|------------------------|--|--------------|------------------------|--------------|-------------------------|------------------|-------------------------|---|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | Featur % | es Type ¹ | Loc ² | Texture | Remarks |
| 0-4 | 10YR 3/2 | 100 | Color (moist) | | Турс | | Loamy/Clayey | clay loam |
| 4-16 | 10YR 4/1 | 90 | 7.5YR 4/6 | 10 | | | Loamyolayoy | Prominent redox concentrations |
| 4-10 | 10110 4/1 | | 7.511(4/0 | | | 101 | | |
| - | | | | | | | | mixing of soils in second layer |
| • | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Depl | etion, RM= | Reduced Matrix, M | IS=Masl | ked Sand | d Grains | | PL=Pore Lining, M=Matrix. |
| Hydric Soil | | | | | | | | s for Problematic Hydric Soils ³ : |
| Histosol | | | Sandy Gle | | | | | Prairie Redox (A16) |
| | pipedon (A2) | | Sandy Red | | | | | Manganese Masses (F12) |
| | istic (A3) | | Stripped M | | 5) | | | Parent Material (F21) |
| | en Sulfide (A4) | | Dark Surfa | , , | L (- 1) | | | Shallow Dark Surface (F22) |
| | d Layers (A5) uck (A10) | | Loamy Mu | | | | Other | (Explain in Remarks) |
| | d Below Dark Surface | (A11) | Loamy Gle X Depleted M | | | | | |
| | ark Surface (A12) | (A11) | Redox Dar | - | | | ³ Indicators | s of hydrophytic vegetation and |
| | Mucky Mineral (S1) | | Depleted D | | | ١ | | nd hydrology must be present, |
| | ucky Peat or Peat (S3 |) | Redox Dep | | , , | , | | s disturbed or problematic. |
| | Layer (if observed): | , | <u> </u> | | | | | · |
| Type: | _uyo. (0200. 10u). | | | | | | | |
| Depth (i | nches): | | | | | | Hydric Soil Present | ? Yes X No |
| Remarks: | | | _ | | | | | |
| | are present. Hydric s | oils indicat | ors Depleted Belov | w Dark S | Surface (| A11) an | d Depleted Matrix (F3) | are satisfied. |
| , | , , | | | | ` | , | 1 (- 7) | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | OGY | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | |
| - | cators (minimum of o | ne is requir | ed; check all that a | apply) | | | Secondar | y Indicators (minimum of two required) |
| | Water (A1) | | Water-Stai | | ves (B9) | 1 | | ce Soil Cracks (B6) |
| High Wa | ater Table (A2) | | Aquatic Fa | una (B1 | 3) | | Draina | age Patterns (B10) |
| Saturati | on (A3) | | True Aquat | ic Plant | s (B14) | | Dry-S | eason Water Table (C2) |
| Water M | larks (B1) | | Hydrogen S | Sulfide (| Odor (C1 |) | Crayfi | ish Burrows (C8) |
| | nt Deposits (B2) | | Oxidized R | | | - | · · · · — | ation Visible on Aerial Imagery (C9) |
| | posits (B3) | | Presence of | | | . , | | ed or Stressed Plants (D1) |
| | at or Crust (B4) | | Recent Iron | | | illed Soil | | norphic Position (D2) |
| | oosits (B5) | nogom/ /D7 | Thin Muck | | | | FAC-I | Neutral Test (D5) |
| | on Visible on Aerial Ir y Vegetated Concave | | , <u> </u> | | | | | |
| | | ourrace (D | 0)Other (Exp | iaiii iii iv | ciliaiks) | | T | |
| Field Obser | | | No. Y | Donth (i | nches): | | | |
| Water Table | | | | | nches): | | | |
| Saturation F | | | | Depth (ii | _ | _ | Wetland Hydrolog | y Present? Yes No X |
| | pillary fringe) | | | - op (| _ | | | ,, |
| | corded Data (stream | gauge, mo | nitoring well, aerial | photos | , previou | s inspec | tions), if available: | |
| | <u> </u> | | | | | | · | |
| Remarks: | | | | | | | | |
| Wetland hyd | drology is neither pres | ent nor indi | cated. | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (ORI | D) | City/Cou | nty: Chicago | o/Cook | Sampling Dat | e: <u>9/17/2019</u> |
|---|----------------|-----------------|-----------------|------------------------------------|----------------------------------|---------------------|
| Applicant/Owner: City of Chicago | | | ' | State: IL | Sampling Poi | nt: NW39 UPL |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Me | ad & Hunt, In | c. Section, 7 | Гownship, Ra | inge: Section 25, T | — 41N, R11E | |
| Landform (hillside, terrace, etc.): flat | | | | concave, convex, nor | | |
| Slope (%): <1% Lat: 42.0108761 | | | 87.92261814 | | Datum: WGS84 | 1 |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly le | vel (Predom | | | | | · |
| | | | | | | - \ |
| Are climatic / hydrologic conditions on the site typical fo | | - | Yes | | explain in Remarks | |
| Are Vegetation, Soil, or Hydrologys | | | | Circumstances" prese | | No |
| Are Vegetation, Soil, or Hydrology | naturally prob | olematic? (| If needed, ex | xplain any answers in | Remarks.) | |
| SUMMARY OF FINDINGS – Attach site ma | ap showir | ng samplin | ng point lo | cations, transe | cts, important f | features, etc. |
| Hydrophytic Vegetation Present? Yes No | о X | Is the | Sampled A | rea | | |
| | | | n a Wetland | | No_X_ | |
| Wetland Hydrology Present? Yes X No | | | | | | |
| Remarks: | | • | | | | |
| Climatic/hydrologic conditions are not typical due to a | n above aver | age amount o | of rainfall dur | ing September 2019. | Receives run off f | rom parking lot to |
| the north. | | | | | | |
| VEGETATION – Use scientific names of pla | ints. | | | | | |
| To a Otraction (Diet sines | Absolute | Dominant | Indicator | Danila and Tark | | |
| Tree Stratum (Plot size:) 1. | % Cover | Species? | Status | Dominance Test | | |
| 2. | | | | Number of Domina Are OBL, FACW, | • | 1 (A) |
| 3. | | | | Total Number of D | _ | . (//) |
| 4. | | | | Across All Strata: | ominant opecies | 2 (B) |
| 5. | | | | Percent of Domina | ant Species That | ``` |
| | | Total Cover | | Are OBL, FACW, | • | 50.0% (A/B) |
| Sapling/Shrub Stratum (Plot size: 15ft) |) | | | | | - |
| 1. Rhamnus cathartica | 75 | Yes | FAC | Prevalence Index | worksheet: | |
| 2 | | | | Total % Cove | | iply by: |
| 3. | | | | OBL species | 10 x 1 = _ | 10 |
| 4 | | | | FACW species | 0 x 2 = _ | 0 |
| 5 | 75 | -Total Cavar | | FACIL anguing | 80 x 3 = 20 x 4 = | 240 80 |
| <u>Herb Stratum</u> (Plot size: 5ft) | 75 | =Total Cover | | FACU species UPL species | 20 x 4 = 40 x 5 = | 200 |
| Dipsacus laciniatus | 40 | Yes | UPL | Column Totals: | 150 (A) | 530 (B) |
| Solidago canadensis | 10 | No | FACU | Prevalence Ind | | 3.53 |
| 3. Symphyotrichum ericoides | 5 | No | FACU | | | |
| 4. Prunella vulgaris | 5 | No | FAC | Hydrophytic Veg | etation Indicators: | |
| 5. Lycopus americanus | 5 | No | OBL | 1 - Rapid Tes | t for Hydrophytic Ve | getation |
| 6. Juniperus virginiana | 5 | No | FACU | 2 - Dominance | e Test is >50% | |
| 7. Lythrum salicaria | 5 | No | OBL | | e Index is ≤3.0 ¹ | |
| 8 | | | | l | ical Adaptations ¹ (P | |
| 9 | | | | | narks or on a separ | |
| 10 | | | | | lydrophytic Vegetat | |
| Manda Vina Chatum | 75 = | =Total Cover | | | ic soil and wetland | |
| Woody Vine Stratum (Plot size: |) | | | pe present, unless | disturbed or proble | ematic. |
| 1. 2. | | | | Hydrophytic | | |
| <u> </u> | | Total Cover | | Vegetation Present? Y | 'es No_ | Χ |
| Demarks: (Include sheet sumbers have as a | | . 5.31 00101 | | | | <u>·-</u> |
| Remarks: (Include photo numbers here or on a separ | , | tion is not pre | sent Bares | oil due to Rhamnus a | and shading | |

SOIL Sampling Point: NW39 UPL 2

| | | o the dept | | | | ator or c | confirm the absence of | of indicators.) |
|------------------------|------------------------------------|---------------|--|---------------|-------------------------|------------------|----------------------------|--|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | x Featur % | es Type ¹ | Loc ² | Texture | Remarks |
| 0-4 | 7.5YR 3/1 | 100 | Color (moist) | | Турс | | Loamy/Clayey | clay loam |
| 4-16 | 10YR 4/2 | 85 | 10YR 5/6 | 15 | | M | | Prominent redox concentrations |
| 4-10 | 101R 4/2 | 65 | 10113/0 | 15 | <u>C</u> | IVI | Loamy/Clayey | Prominent redox concentrations |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Depl | etion, RM= | Reduced Matrix, M | 1S=Masl | ked Sand | d Grains | . ² Location: | PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Indicators | s for Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Sandy Gle | yed Mat | rix (S4) | | Coast | Prairie Redox (A16) |
| Histic Ep | pipedon (A2) | | Sandy Red | lox (S5) | | | Iron-N | langanese Masses (F12) |
| Black Hi | stic (A3) | | Stripped M | atrix (S6 | 5) | | Red F | Parent Material (F21) |
| Hydroge | n Sulfide (A4) | | Dark Surfa | ce (S7) | | | Very S | Shallow Dark Surface (F22) |
| | l Layers (A5) | | Loamy Mu | - | | | Other | (Explain in Remarks) |
| | ick (A10) | | Loamy Gle | | | | | |
| | d Below Dark Surface | (A11) | X Depleted N | | - | | 2 | |
| | ark Surface (A12) | | Redox Dar | | | | | s of hydrophytic vegetation and |
| | lucky Mineral (S1) | | Depleted D | | |) | | nd hydrology must be present, |
| | icky Peat or Peat (S3 |) | Redox Dep | ression | s (F8) | | unles | s disturbed or problematic. |
| | Layer (if observed): | | | | | | | |
| Type: | | | | | | | | |
| Depth (ir | nches): | | _ | | | | Hydric Soil Present | ? Yes <u>X</u> No |
| Remarks: | | | | | | | | |
| Hydric soils | are present. Hydric s | oils indicate | or Depleted Below | Dark Su | urface (A | .11) and | Depleted Matrix (F3) a | re satisfied. |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | ACV | | | | | | | |
| | | | | | | | | |
| - | drology Indicators: | : | | | | | Casandam | . In disable of (maining one of the many includ) |
| | cators (minimum of o Water (A1) | ie is requir | e <u>d, check all that a</u> Water-Stai | | vos (RO) | | | y Indicators (minimum of two required) ce Soil Cracks (B6) |
| | iter Table (A2) | | Aquatic Fa | | ` , | | | age Patterns (B10) |
| X Saturation | | | True Aquat | • | , | | | eason Water Table (C2) |
| | arks (B1) | | Hydrogen | | , , |) | | ish Burrows (C8) |
| | nt Deposits (B2) | | Oxidized R | | - | • | | ation Visible on Aerial Imagery (C9) |
| | oosits (B3) | | Presence of | | | _ | | ed or Stressed Plants (D1) |
| Algal Ma | it or Crust (B4) | | Recent Iro | n Reduc | tion in Ti | lled Soil | s (C6) Geom | norphic Position (D2) |
| Iron Dep | osits (B5) | | Thin Muck | Surface | (C7) | | FAC-I | Neutral Test (D5) |
| Inundation | on Visible on Aerial In | nagery (B7) | Gauge or \ | Vell Dat | a (D9) | | | |
| Sparsely | Vegetated Concave | Surface (B | 8)Other (Exp | lain in R | emarks) | | | |
| Field Obser | vations: | | | | | | | |
| Surface Wat | er Present? Yes | · | | Depth (i | · - | | | |
| Water Table | | | | Depth (i | _ | 8 | | |
| Saturation P | | s <u>X</u> | No | Depth (i | nches): _ | 4 | Wetland Hydrolog | y Present? Yes X No |
| (includes ca | | | -141 | Laster | | | Alama V. Marana VII. I. I. | |
| Describe Re | corded Data (stream | gauge, moi | nitoring well, aeria | photos | , previou: | s inspec | tions), if available: | |
| Remarks: | | | | | | | | |
| | rology is present. | | | | | | | |
| , | , | | | | | | | |
| | | | | | | | | |

| Draigat/Cita, Chiagga O'llara International Airport (O | DD) | City/Cou | ntu Chicas | o/Cook S | amalina Data | 0/17/2010 |
|--|----------------------|----------------------|---------------------|--|----------------|------------------------|
| Project/Site: Chicago O'Hare International Airport (O | KD) | City/Cou | nty: Chicag | | ampling Date: | 9/17/2019 NW 20 WET |
| Applicant/Owner: City of Chicago | | 0 " - | | | ampling Point: | <u>NW 39 WET</u> |
| Investigator(s): Brauna Hartzell, Conor Makepeace, N | lead & Hunt, Ir | | | | | |
| Landform (hillside, terrace, etc.): shallow swale | | | Local relief (| concave, convex, none): con | cave | |
| Slope (%): <1% Lat: 42.01089212 | | Long: | 87.92364377 | 7Date | um: WGS84 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly | level (Predom | inantly Non-h | ydric (6%)) | NWI classificati | on: PSS | |
| Are climatic / hydrologic conditions on the site typical | for this time o | f year? | Yes | No X (If no, explain | in Remarks.) | |
| Are Vegetation, Soil, or Hydrology | significantly of | disturbed? A | Are "Normal (| Circumstances" present? | res X No |) |
| Are Vegetation , Soil , or Hydrology | - ' | | | | | |
| SUMMARY OF FINDINGS – Attach site n | | | | | | tures, etc. |
| Hydric Soil Present? Yes X | No No | | Sampled A | | No | |
| Remarks: Climatic/hydrologic conditions are not typical due to | | rage amount | of rainfall dui | ing September 2019. | | |
| VEGETATION – Use scientific names of p | | | | | | |
| <u>Tree Stratum</u> (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksh | oot- | |
| 1. Salix alba | 30 | Yes | FACW | | | |
| Populus deltoides | 10 | Yes | FAC | Number of Dominant Special Are OBL, FACW, or FAC: | | 6 (A) |
| 3. Fraxinus pennsylvanica | 5 | No | FACW | Total Number of Dominan | | ` ′ |
| 4. | | | | Across All Strata: | | 6 (B) |
| 5. Sapling/Shrub Stratum (Plot size: 15ft | 45 | =Total Cover | | Percent of Dominant Spec Are OBL, FACW, or FAC: | | 0.0% (A/B) |
| 1. Rhamnus cathartica | _ ⁾ 40 | Yes | FAC | Prevalence Index works | hoot: | |
| 2. | | 100 | 1710 | Total % Cover of: | Multiply | bv: |
| 3. | | | | OBL species 0 | x 1 = | 0 |
| 4. | | | | FACW species 90 | _ | 180 |
| 5. | | | | FAC species 95 | x 3 = 2 | 285 |
| | 40 | Total Cover | | FACU species 0 | x 4 = | 0 |
| Herb Stratum (Plot size: 5ft) | | | | UPL species 0 | x 5 = | 0 |
| 1. Apocynum cannabinum | 40 | Yes | FAC | Column Totals: 185 | _(A) | 165 (B) |
| Phalaris arundinacea | 25 | Yes | FACW | Prevalence Index = B/ | A = 2.51 | |
| 3. Carex vulpinoidea | 25 | Yes | FACW | | | |
| 4. Solidago sempervirens | | <u>No</u> | FACW | Hydrophytic Vegetation | | |
| 5. Rhamnus cathartica | 5 | No | FAC | 1 - Rapid Test for Hyd | | ation |
| 6. | | | | X 2 - Dominance Test is X 3 - Prevalence Index | | |
| 7. 8. | | | | 4 - Morphological Ada | | ide sunnortino |
| | | | | data in Remarks or | | |
| 10. | | | | Problematic Hydrophy | | |
| | 100 | Total Cover | | ¹ Indicators of hydric soil a | | |
| Woody Vine Stratum (Plot size:1. | .—— | rotal cover | | be present, unless disturb | • | |
| 2. | | | | Hydrophytic | | |
| | | Total Cover | | Vegetation Present? Yes X | No | |
| | | . 5.5. 55701 | | 1 | _ ··· | _ |

SOIL Sampling Point: NW39 WET 1

| Color (moist) | Tolor (moist) | 5 | • ` | | pth needed to docu | | | | | | |
|--|--|--|--|---|--|--|--|--|---|---|--|
| 0-4 10YR 4/1 95 10YR 5/6 5 C M Loamy/Clayey Prominent redox concentrations 4-16 10YR 6/1 70 7.5YR 5/6 30 C M Loamy/Clayey Prominent redox concentrations 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1 Hydric Soil Indicators: Histosol (A1) Histosol (A2) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Hydrogen Sulfide (A4) Stratified Layers (A5) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Dark Surface (F7) Redox Depressions (F8) unless disturbed or problematic. | 10YR 4/1 95 10YR 5/6 5 C M Loamy/Clayey Prominent redox concentrations 4-16 10YR 6/1 70 7.5YR 5/6 30 C M Loamy/Clayey Prominent redox concentrations Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thick Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thick Dark Sufface (A12) Thick Dark Surface (A12) Sandy Gleyed Matrix (S4) Sandy Rdedox (S5) Thick Dark Surface (A12) Sandy Rdedox (S5) Thick Dark Surface (A12) Sandy Rdedox Dark Surface (F6) Thick Dark Surface (A12) Sandy Rdedox Dark Surface (F6) Sandy Mucky Mineral (S1) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydrology must be present, | • | | 0/ | | | | Loo ² | T t | Develope | |
| 4-16 10YR 6/1 70 7.5YR 5/6 30 C M Loamy/Clayey Prominent redox concentrations Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Histosol (A2) Sandy Redox (S5) Black Histic (A3) Hydrogen Sulfide (A4) Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Endox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. | 4-16 10YR 6/1 70 7.5YR 5/6 30 C M Loamy/Clayey Prominent redox concentrations Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thick Dail Loamy Gleyed Matrix (S4) Thick Dark Surface (A12) Thick Dark Surfa | | | | | | | | | | |
| ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Comy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydrology must be present, unless disturbed or problematic. | Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Varic Soil Indicators: Indicators for Problematic Hydric Soils³: | | | | | | | | | | |
| Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Redox (S5) Redox Dark Surface (F3) Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | ydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Stratified Layers (A5) Commandation Problematic Hydric Soils 3: Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stratified Layers (A5) Commandation Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Commandation Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Indicators for Problematic Hydric Soils 3: Coast Prairie Redox (A16) Loanty Redox (S5) Iron-Manganese Masses (F12) Net Parint Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Stratified Layers (A10) A Depleted Matrix (F3) Thick Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydrology must be present, | 4-16 | 10YR 6/1 | 70 | 7.5YR 5/6 | 30 | С | M | Loamy/Clayey | Prominent redox concentrations | |
| Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Redox (S5) Redox Dark Surface (F3) Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | ydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Stratified Layers (A5) Commandation Problematic Hydric Soils 3: Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stratified Layers (A5) Commandation Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Commandation Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Indicators for Problematic Hydric Soils 3: Coast Prairie Redox (A16) Loanty Redox (S5) Iron-Manganese Masses (F12) Net Parint Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Stratified Layers (A10) A Depleted Matrix (F3) Thick Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydrology must be present, | | | | | | | | | | |
| Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Redox (S5) Redox Dark Surface (F3) Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | ydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Stratified Layers (A5) Commandation Problematic Hydric Soils 3: Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stratified Layers (A5) Commandation Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Commandation Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Indicators for Problematic Hydric Soils 3: Coast Prairie Redox (A16) Loanty Redox (S5) Iron-Manganese Masses (F12) Net Parint Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Stratified Layers (A10) A Depleted Matrix (F3) Thick Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydrology must be present, | | | | | | | | | | |
| Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Separation Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | ydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Stratified Layers (A5) Commandation Problematic Hydric Soils 3: Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stratified Layers (A5) Commandation Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Commandation Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Indicators for Problematic Hydric Soils 3: Coast Prairie Redox (A16) Loanty Redox (S5) Iron-Manganese Masses (F12) Net Parint Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Stratified Layers (A10) A Depleted Matrix (F3) Thick Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydrology must be present, | | | | | | | | | | |
| Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Redox (S5) Redox Dark Surface (F3) Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | ydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Stratified Layers (A5) Commandation Problematic Hydric Soils 3: Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stratified Layers (A5) Commandation Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Commandation Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Indicators for Problematic Hydric Soils 3: Coast Prairie Redox (A16) Loanty Redox (S5) Iron-Manganese Masses (F12) Net Parint Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Stratified Layers (A10) A Depleted Matrix (F3) Thick Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydrology must be present, | | | · | | | | | | | |
| Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Separation Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | ydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Stratified Layers (A5) Commandation Problematic Hydric Soils 3: Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stratified Layers (A5) Commandation Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Commandation Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Indicators for Problematic Hydric Soils 3: Coast Prairie Redox (A16) Loanty Redox (S5) Iron-Manganese Masses (F12) Net Parint Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Stratified Layers (A10) A Depleted Matrix (F3) Thick Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydrology must be present, | , | | | | | | | | | |
| Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Separation Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | ydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Stratified Layers (A5) Commandation Problematic Hydric Soils 3: Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stratified Layers (A5) Commandation Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Commandation Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Indicators for Problematic Hydric Soils 3: Coast Prairie Redox (A16) Loanty Redox (S5) Iron-Manganese Masses (F12) Net Parint Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Stratified Layers (A10) A Depleted Matrix (F3) Thick Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydrology must be present, | ¹ Type: C=C | Concentration D=Dep | etion RM | I=Reduced Matrix N | //S=Masl | ed Sand | Grains | 2l ocation | PI =Pore Lining M=Matrix | |
| Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Dark Surface (S7) Very Shallow Dark Surface (F22) Stratified Layers (A5) Loamy Mucky Mineral (F1) Other (Explain in Remarks) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. | Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Red Parent Material (F21) Hydrogen Sulfide (A4) Dark Surface (S7) Very Shallow Dark Surface (F22) Stratified Layers (A5) Loamy Mucky Mineral (F1) Other (Explain in Remarks) Zem Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydrology must be present, | | | , | | | | | | | |
| Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F8) Redox Dark Surface (F8) Thick Dark Surface (A12) Redox Dark Surface (F8) Sandy Mucky Mineral (S1) Depleted Dark Surface (F8) Wetland hydrology must be present, unless disturbed or problematic. | Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S5) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) A Depleted Matrix (F2) Sandy Mucky Mineral (S1) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) A Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Very Shallow Dark Surface (F22) Other (Explain in Remarks) A Depleted Matrix (F3) Wetland hydrology must be present, | • | | | Sandy Gle | ved Mati | rix (S4) | | | • | |
| Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Dark Surface (F7) Wetland hydrology must be present, unless disturbed or problematic. | Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) Com Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Stripped Matrix (S6) Dark Surface (S7) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Stripped Matrix (F2) Depleted Matrix (F2) Stratified Layers (A10) Loamy Mucky Mineral (S1) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stratified Layers (A11) Stripped Matrix (S6) Sendy Mucky Mineral (F21) Very Shallow Dark Surface (F22) Stratified Layers (A5) Stripped Matrix (S6) Stripped Matrix (S1) Stripped Matrix | | | | | - | () | | | | |
| Stratified Layers (A5) Loamy Mucky Mineral (F1) Cother (Explain in Remarks) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sem Mucky Peat or Peat (S3) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) X Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. | Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) X Depleted Matrix (F3) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Cher (Explain in Remarks) A Depleted Matrix (F2) Similar of hydrophytic vegetation and wetland hydrology must be present, | | | | | | 6) | | | | |
| 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) X Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) 3Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) unless disturbed or problematic. | 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) X Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) 3Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, | — Hydroge | en Sulfide (A4) | | Dark Surfa | ice (S7) | | | Very | Shallow Dark Surface (F22) | |
| Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Peat or Peat (S3) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) wetland hydrology must be present, unless disturbed or problematic. | Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Z Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Wetland hydrology must be present, | Stratifie | d Layers (A5) | | Loamy Mu | cky Mine | eral (F1) | | Othe | r (Explain in Remarks) | |
| Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Redox Depressions (F8) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Pepleted Dark Surface (F7) Redox Dark Surface (F6) Wetland hydrology must be present, | 2 cm Mi | uck (A10) | | Loamy Gle | eyed Mat | rix (F2) | | | | |
| Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Som Mucky Peat or Peat (S3) Depleted Dark Surface (F7) Redox Depressions (F8) wetland hydrology must be present, unless disturbed or problematic. | Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, | Deplete | d Below Dark Surface | e (A11) | X Depleted N | /latrix (F | 3) | | | | |
| 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) unless disturbed or problematic. | | Thick D | ark Surface (A12) | | | | ` ' | | ³ Indicato | rs of hydrophytic vegetation and | |
| | 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) unless disturbed or problematic. | | | | | | | | | | |
| | | 5 cm Mi | ucky Peat or Peat (S3 | 5) | Redox Dep | pressions | s (F8) | | unle | ss disturbed or problematic. | |
| Restrictive Layer (if observed): | estrictive Layer (if observed): | Restrictive | Layer (if observed): | | | | | | | | |
| Type: | Type: | • • | | | | | | | | | |
| Depth (inches): Hydric Soil Present? Yes X No | | Depth (i | nches): | | | | | | Hydric Soil Presen | t? Yes X No | |
| Remarks: | | | | | | | | | <u> </u> | <u> </u> | |
| Hydric soils are present. Hydric soil indicator Depleted Matrix (F3) is satisfied. | Depth (inches): Hydric Soil Present? Yes X No emarks: | | | | | | | | | | |
| | Depth (inches): Hydric Soil Present? Yes X No | | are present. Hydric s | soil indicat | tor Depleted Matrix (| (F3) is sa | atisfied. | | • | <u> </u> | |
| | Depth (inches): Hydric Soil Present? Yes X No emarks: | | are present. Hydric s | soil indicat | tor Depleted Matrix (| (F3) is sa | atisfied. | ļ | | <u> </u> | |
| HYDROLOGY | Depth (inches): Hydric Soil Present? Yes X No emarks: | | are present. Hydric s | soil indicat | tor Depleted Matrix (| (F3) is sa | atisfied. | | , | <u> </u> | |
| | Depth (inches): Hydric Soil Present? Yes X No emarks: ydric soils are present. Hydric soil indicator Depleted Matrix (F3) is satisfied. | Hydric soils | | soil indicat | tor Depleted Matrix (| (F3) is sa | atisfied. | | | | |
| | Depth (inches): Hydric Soil Present? Yes X No emarks: ydric soils are present. Hydric soil indicator Depleted Matrix (F3) is satisfied. | Hydric soils | DGY | soil indicat | tor Depleted Matrix (| (F3) is sa | atisfied. | | | | |
| | Depth (inches): Hydric Soil Present? Yes X No emarks: ydric soils are present. Hydric soil indicator Depleted Matrix (F3) is satisfied. YDROLOGY Vetland Hydrology Indicators: | HYDROLO Wetland Hy | OGY rdrology Indicators: | | | | atisfied. | | | | |
| | Depth (inches): Hydric Soil Present? Yes X No emarks: ydric soils are present. Hydric soil indicator Depleted Matrix (F3) is satisfied. YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) | Hydric soils HYDROLO Wetland Hy Primary Indi | OGY rdrology Indicators: icators (minimum of o | | uired; check all that a | apply) | | | <u>Seconda</u> | ry Indicators (minimum of two required) | |
| X Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) | Depth (inches): Hydric Soil Present? Yes X No emarks: ydric soils are present. Hydric soil indicator Depleted Matrix (F3) is satisfied. YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is required; check all that apply) C Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) | HYDROLO Wetland Hy Primary Indi X Surface | OGY rdrology Indicators: icators (minimum of o Water (A1) | | uired; check all that a | apply) ined Lea | ves (B9) | | Seconda Surf: | ry Indicators (minimum of two required) ace Soil Cracks (B6) | |
| | Depth (inches): Hydric Soil Present? Yes X No emarks: ydric soils are present. Hydric soil indicator Depleted Matrix (F3) is satisfied. YDROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one is required; check all that apply) (Surface Water (A1) Water-Stained Leaves (B9) (High Water Table (A2) Aquatic Fauna (B13) Water-Stained (B13) Water-Stained (B13) Drainage Patterns (B10) | HYDROLO Wetland Hy Primary Ind X Surface X High Wa | OGY vdrology Indicators: icators (minimum of o Water (A1) ater Table (A2) | | uired; check all that a Water-Stai Aquatic Fa | apply) ined Lea iuna (B1 | ves (B9) 3) | | Seconda Surf. | ry Indicators (minimum of two required) ace Soil Cracks (B6) nage Patterns (B10) | |
| X Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) | Depth (inches): Hydric Soil Present? Yes X No emarks: ydric soils are present. Hydric soil indicator Depleted Matrix (F3) is satisfied. YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is required; check all that apply) (Surface Water (A1) Water-Stained Leaves (B9) (High Water Table (A2) Aquatic Fauna (B13) (Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) | HYDROLO Wetland Hy Primary Indi X Surface X High Wa X Saturati | OGY vdrology Indicators: icators (minimum of o Water (A1) ater Table (A2) on (A3) | | uired; check all that a Water-Stai Aquatic Fa True Aqua | apply) ined Lea iuna (B1 tic Plant | ves (B9) 3) s (B14) | | Seconda Surf: Drain Dry- | ry Indicators (minimum of two required) ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) | |
| XSurface Water (A1)Water-Stained Leaves (B9)Surface Soil Cracks (B6)XHigh Water Table (A2)Aquatic Fauna (B13)Drainage Patterns (B10)XSaturation (A3)True Aquatic Plants (B14)Dry-Season Water Table (C2) | Pepth (inches): Hydric Soil Present? Yes X No Pemarks: ydric soils are present. Hydric soil indicator Depleted Matrix (F3) is satisfied. YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is required; check all that apply) (Surface Water (A1) Water-Stained Leaves (B9) (High Water Table (A2) Aquatic Fauna (B13) (Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Well Present? Yes X No Secondary Indicators (minimum of two required) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) | HYDROLO Wetland Hy Primary Indi X Surface X High Water N | ordrology Indicators: icators (minimum of order (A1) ater Table (A2) on (A3) Marks (B1) | | uired; check all that a Water-Stai Aquatic Fa True Aqua | apply) ined Lea iuna (B1 tic Plant: Sulfide (| ves (B9) 3) s (B14) Odor (C1) | | Seconda Surfa Draii Dry- Cray | ry Indicators (minimum of two required) ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) | |
| XSurface Water (A1)Water-Stained Leaves (B9)Surface Soil Cracks (B6)XHigh Water Table (A2)Aquatic Fauna (B13)Drainage Patterns (B10)XSaturation (A3)True Aquatic Plants (B14)Dry-Season Water Table (C2)Water Marks (B1)Hydrogen Sulfide Odor (C1)Crayfish Burrows (C8)Sediment Deposits (B2)Oxidized Rhizospheres on Living Roots (C3)Saturation Visible on Aerial Imagery (C9)Drift Deposits (B3)Presence of Reduced Iron (C4)Stunted or Stressed Plants (D1) | Depth (inches): Hydric Soil Present? Yes X No | Hydric soils HYDROLO Wetland Hy Primary Indi X Surface X High Water M Sedime Drift De | ordrology Indicators: icators (minimum of orwater (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) | | uired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R | apply) ined Lea iuna (B1 tic Planti Sulfide (Rhizosph | ves (B9) 3) s (B14) Ddor (C1) eres on L | iving Ro | <u>Seconda</u> Surfa Drai Cray ots (C3) Satu | ry Indicators (minimum of two required) ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) | |
| XSurface Water (A1)Water-Stained Leaves (B9)Surface Soil Cracks (B6)XHigh Water Table (A2)Aquatic Fauna (B13)Drainage Patterns (B10)XSaturation (A3)True Aquatic Plants (B14)Dry-Season Water Table (C2)Water Marks (B1)Hydrogen Sulfide Odor (C1)Crayfish Burrows (C8)Sediment Deposits (B2)Oxidized Rhizospheres on Living Roots (C3)Saturation Visible on Aerial Imagery (C9)Drift Deposits (B3)Presence of Reduced Iron (C4)Stunted or Stressed Plants (D1)Algal Mat or Crust (B4)Recent Iron Reduction in Tilled Soils (C6)XGeomorphic Position (D2) | Depth (inches): emarks: ydric soils are present. Hydric soil indicator Depleted Matrix (F3) is satisfied. **TOROLOGY** /*Etland Hydrology Indicators: rimary Indicators (minimum of one is required; check all that apply) (**Surface Water (A1) | Hydric soils HYDROLO Wetland Hy Primary Indi X Surface X High Water M Sedime Drift De Algal Ma | or various Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) | | uired; check all that a Water-Stai Aquatic Fa True Aquai Hydrogen S Oxidized R Presence of Recent Iron | apply) ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc | ves (B9) 3) s (B14) Odor (C1) eres on Leed Iron (| iving Ro C4) | Seconda Surf. Drail Dry- Cray ots (C3) | ry Indicators (minimum of two required) ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) | |
| XSurface Water (A1)Water-Stained Leaves (B9)Surface Soil Cracks (B6)XHigh Water Table (A2)Aquatic Fauna (B13)Drainage Patterns (B10)XSaturation (A3)True Aquatic Plants (B14)Dry-Season Water Table (C2)Water Marks (B1)Hydrogen Sulfide Odor (C1)Crayfish Burrows (C8)Sediment Deposits (B2)Oxidized Rhizospheres on Living Roots (C3)Saturation Visible on Aerial Imagery (C9)Drift Deposits (B3)Presence of Reduced Iron (C4)Stunted or Stressed Plants (D1)Algal Mat or Crust (B4)Recent Iron Reduction in Tilled Soils (C6)XGeomorphic Position (D2)Iron Deposits (B5)Thin Muck Surface (C7)XFAC-Neutral Test (D5) | Depth (inches): | Hydric soils HYDROLO Wetland Hy Primary Indi X Surface X High Water M Sedime Drift De Algal Ma Iron De | or various Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) | ne is requ | uired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R Presence of Recent Iron Thin Muck | apply) ined Lea tuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface | ves (B9) 3) s (B14) Odor (C1) eres on L ced Iron (tion in Til (C7) | iving Ro C4) | Seconda Surf. Drail Dry- Cray ots (C3) | ry Indicators (minimum of two required) ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) | |
| XSurface Water (A1)Water-Stained Leaves (B9)Surface Soil Cracks (B6)XHigh Water Table (A2)Aquatic Fauna (B13)Drainage Patterns (B10)XSaturation (A3)True Aquatic Plants (B14)Dry-Season Water Table (C2)Water Marks (B1)Hydrogen Sulfide Odor (C1)Crayfish Burrows (C8)Sediment Deposits (B2)Oxidized Rhizospheres on Living Roots (C3)Saturation Visible on Aerial Imagery (C9)Drift Deposits (B3)Presence of Reduced Iron (C4)Stunted or Stressed Plants (D1)Algal Mat or Crust (B4)Recent Iron Reduction in Tilled Soils (C6)XGeomorphic Position (D2)Iron Deposits (B5)Thin Muck Surface (C7)XFAC-Neutral Test (D5)Inundation Visible on Aerial Imagery (B7)Gauge or Well Data (D9) | Depth (inches): | Hydric soils HYDROLO Wetland Hy Primary Indi X Surface X High Wa X Saturati Water M Sedime Drift De Algal Ma Iron Dep Inundati | or various indicators: icators (minimum of or water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In | ne is requ | uired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R Presence of Recent Iron Thin Muck Gauge or N | apply) ined Lea iuna (B1 tic Plant: Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat | ves (B9) 3) s (B14) Odor (C1) eres on Led Iron (tion in Til (C7) a (D9) | iving Ro C4) | Seconda Surf. Drail Dry- Cray ots (C3) | ry Indicators (minimum of two required) ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) | |
| X Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) X FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) | Depth (inches): | Hydric soils HYDROLO Wetland Hy Primary Indi X Surface X High Water N Sedime Drift De Algal Material Iron Dep Inundati Sparsel | ordrology Indicators: icators (minimum of of water (A1) ater Table (A2) on (A3) Marks (B1) int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Intry Vegetated Concave | ne is requ | uired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R Presence of Recent Iron Thin Muck Gauge or N | apply) ined Lea iuna (B1 tic Plant: Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat | ves (B9) 3) s (B14) Odor (C1) eres on Led Iron (tion in Til (C7) a (D9) | iving Ro C4) | Seconda Surf. Drail Dry- Cray ots (C3) | ry Indicators (minimum of two required) ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) | |
| X Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) X FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) | Depth (inches): Hydric Soil Present? Yes X No_ emarks: ydric soils are present. Hydric soil indicator Depleted Matrix (F3) is satisfied. YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Hydrology Patterns (B10) Surface Soil Cracks (B6) Hydrology Surface Soil Cracks (B6) Fur Aquatic Fauna (B13) Surface Soil Cracks (B6) Fur Aquatic Fauna (B13) Sediment Deposits (B1) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) | Hydric soils HYDROLO Wetland Hy Primary Indi X Surface X High Water M Sedime Drift De Algal Ma Iron De Inundati Sparsel | or various Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In a Vegetated Concave rvations: | ne is requ magery (B Surface (| uired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R Presence of Recent Iron Thin Muck Gauge or N (B8) Other (Exp | apply) ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat | ves (B9) 3) s (B14) Odor (C1) eres on L ced Iron (tion in Til (C7) a (D9) | Living Ro C4) lled Soils | Seconda Surf. Drail Dry- Cray ots (C3) | ry Indicators (minimum of two required) ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) | |
| X Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) X FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes X No Depth (inches): 1 | Depth (inches): | Hydric soils HYDROLO Wetland Hy Primary Indi X Surface X High Water M Sedime Drift De Algal Ma Iron Dep Inundati Sparsel Field Obset Surface Water Water M Sedime | or various Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In y Vegetated Concave rvations: ter Present? | ne is requ magery (B Surface (| uired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R Presence of Recent Iron Thin Muck 37) Gauge or N (B8) Other (Exp | apply) ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R | ves (B9) 3) s (B14) Odor (C1) eres on L ted Iron (tion in Til (C7) a (D9) emarks) | Living Ro C4) Iled Soils | Seconda Surf. Drail Dry- Cray ots (C3) | ry Indicators (minimum of two required) ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) | |
| X Surface Water (A1) | Depth (inches): | Hydric soils HYDROLO Wetland Hy Primary Indi X Surface X High Water M Sedime Drift De Algal Ma Iron Dep Inundati Sparsel Field Obset Surface Water Table | or o | magery (B Surface (s X | uired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R Presence of Recent Iron Thin Muck 87) Gauge or N (B8) Other (Exp | apply) ined Lea iuna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (in | ves (B9) 3) s (B14) Odor (C1) eres on L ted Iron (tion in Til (C7) a (D9) emarks) nches):nches):nches): _ | Living Ro C4) Illed Soils 1 7 | Seconda Surfa Drair Dry- Cray Satur Sturn (C6) | ry Indicators (minimum of two required) ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5) | |
| X Surface Water (A1) X High Water Table (A2) Aquatic Fauna (B13) True Aquatic Plants (B14) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water (A1) Water Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes X No Depth (inches): T Saturation Present? Yes X No Depth (inches): O Wetland Hydrology Present? Yes X No No Depth (inches): O Wetland Hydrology Present? Yes X No No Depth (inches): O Wetland Hydrology Present? Yes X No No No Depth (inches): O Wetland Hydrology Present? Yes X No No No No No Depth (inches): O Wetland Hydrology Present? Yes X No No No No No No No No No N | Depth (inches): POPROLOGY Matrix Soil Present? Yes x No | Hydric soils HYDROLO Wetland Hy Primary Indi X Surface X High Water N Sedime Drift De Algal Mater N Iron Dep Inundati Sparsel Field Obset Surface Water Table Saturation F | ordrology Indicators: icators (minimum of orwater (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In y Vegetated Concave rvations: ter Present? Ye Present? Ye Present? | magery (B Surface (s X | uired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R Presence of Recent Iron Thin Muck 87) Gauge or N (B8) Other (Exp | apply) ined Lea iuna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (in | ves (B9) 3) s (B14) Odor (C1) eres on L ted Iron (tion in Til (C7) a (D9) emarks) nches):nches):nches): _ | Living Ro C4) Illed Soils 1 7 | Seconda Surfa Drair Dry- Cray Satur Sturn (C6) | ry Indicators (minimum of two required) ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5) | |
| X Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes X No Depth (inches): 1 Water Table Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Includes capillary fringe) | Popth (inches): | Hydric soils HYDROLO Wetland Hy Primary Indi X Surface X High Wa X Saturati Water N Sedime Drift De Algal Ma Iron Dep Inundati Sparsel Field Obset Surface Wa Water Table Saturation F (includes ca | rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In y Vegetated Concave rvations: ter Present? Ye e Present? Ye present? Ye publicators: | magery (B Surface (s X s X | uired; check all that a Water-Stai Aquatic Fa True Aquai Hydrogen 3 Oxidized R Presence of Recent Iron Thin Muck Gauge or N (B8) Other (Exp | apply) ined Lea iuna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii | ves (B9) 3) s (B14) Odor (C1) eres on Led Iron (tion in Til (C7) a (D9) emarks) checks): nches): nches): | Living Ro C4) Illed Soils 1 7 0 | Seconda | ry Indicators (minimum of two required) ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5) | |
| X Surface Water (A1) X High Water Table (A2) Aquatic Fauna (B13) True Aquatic Plants (B14) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water (A1) Water Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes X No Depth (inches): T Saturation Present? Yes X No Depth (inches): O Wetland Hydrology Present? Yes X No No Depth (inches): O Wetland Hydrology Present? Yes X No No Depth (inches): O Wetland Hydrology Present? Yes X No No No Depth (inches): O Wetland Hydrology Present? Yes X No No No No No Depth (inches): O Wetland Hydrology Present? Yes X No No No No No No No No No N | Popth (inches): | Hydric soils HYDROLO Wetland Hy Primary Indi X Surface X High Wa X Saturati Water N Sedime Drift De Algal Ma Iron Dep Inundati Sparsel Field Obset Surface Wa Water Table Saturation F (includes ca | rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In y Vegetated Concave rvations: ter Present? Ye e Present? Ye present? Ye publicators: | magery (B Surface (s X s X | uired; check all that a Water-Stai Aquatic Fa True Aquai Hydrogen 3 Oxidized R Presence of Recent Iron Thin Muck Gauge or N (B8) Other (Exp | apply) ined Lea iuna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii | ves (B9) 3) s (B14) Odor (C1) eres on Led Iron (tion in Til (C7) a (D9) emarks) checks): nches): nches): | Living Ro C4) Illed Soils 1 7 0 | Seconda | ry Indicators (minimum of two required) ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5) | |
| X Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes X No Depth (inches): 1 Water Table Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Includes capillary fringe) | emarks: ydric soils are present. Hydric soil indicator Depleted Matrix (F3) is satisfied. PROLOGY Petand Hydrology Indicators: | Hydric soils HYDROLO Wetland Hy Primary Indi X Surface X High Water M Sedime Drift De Algal Ma Iron Dep Inundati Sparsel Field Obset Surface Water Table Saturation F (includes ca | rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In y Vegetated Concave rvations: ter Present? Ye e Present? Ye present? Ye publicators: | magery (B Surface (s X s X | uired; check all that a Water-Stai Aquatic Fa True Aquai Hydrogen 3 Oxidized R Presence of Recent Iron Thin Muck Gauge or N (B8) Other (Exp | apply) ined Lea iuna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii | ves (B9) 3) s (B14) Odor (C1) eres on Led Iron (tion in Til (C7) a (D9) emarks) checks): nches): nches): | Living Ro C4) Illed Soils 1 7 0 | Seconda | ry Indicators (minimum of two required) ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5) | |
| X Surface Water (A1) | Pepth (inches): | Hydric soils HYDROLO Wetland Hy Primary Indi X Surface X High Water M Sedime Drift De Algal Ma Iron Dep Inundati Sparsel Field Obset Surface Water Table Saturation F (includes ca Describe Re | rdrology Indicators: ricators (minimum of o Water (A1) Pater Table (A2) On (A3) Marks (B1) Int Deposits (B2) Posits (B3) Pat or Crust (B4) Posits (B5) | magery (B Surface (s X s X s X gauge, m | uired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen s Oxidized R Presence of Recent Iron Thin Muck Gauge or V (B8) Other (Exp | apply) ined Lea iuna (B1 tic Plant: Sulfide C thizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii I photos | ves (B9) 3) s (B14) Odor (C1) eres on L ced Iron (tion in Til (C7) a (D9) emarks) nches): _ nches): _ nches): _ | Living Ro C4) Illed Soils 1 7 0 | Seconda | ry Indicators (minimum of two required) ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5) | |
| | | | | 5) | | | | | | | |
| | 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) unless disturbed or problematic. | Sandy N | Mucky Mineral (S1) | | Depleted D | Dark Sur | face (F7) | | wetla | and hydrology must be present, | |
| 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) unless disturbed or problematic. | | | | | | | ` ' | | | • • • | |
| 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) unless disturbed or problematic. | | Thick D | ark Surface (A12) | | | | ` ' | | ³Indicato | rs of hydrophytic vegetation and | |
| Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sem Mucky Peat or Peat (S3) Depleted Dark Surface (F7) Redox Depressions (F8) wetland hydrology must be present, unless disturbed or problematic. | Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, | | | () | | | | | ³ Indicato | rs of hydrophytic vegetation and | |
| Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sem Mucky Peat or Peat (S3) Depleted Dark Surface (F7) Redox Depressions (F8) wetland hydrology must be present, unless disturbed or problematic. | Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, | Deplete | d Below Dark Surface | (A11) | X Depleted N | /latrix (F | 3) | | | | |
| Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Redox Depressions (F8) Redox Depressions (F8) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Pepleted Dark Surface (F7) Redox Dark Surface (F6) Wetland hydrology must be present, | | ` ' | | | | | | | | |
| Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sem Mucky Peat or Peat (S3) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Wetland hydrology must be present, unless disturbed or problematic. | Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Z Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Wetland hydrology must be present, | | | | | - | | | | (Explain in Remarks) | |
| 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) X Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, S cm Mucky Peat or Peat (S3) Redox Depressions (F8) unless disturbed or problematic. | 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) X Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) 3Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, | | | | | ` , | eral (F1) | | | , , | |
| Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sem Mucky Peat or Peat (S3) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) X Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Wetland hydrology must be present, unless disturbed or problematic. | Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) X Depleted Matrix (F3) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Cher (Explain in Remarks) A Depleted Matrix (F2) Similar of hydrophytic vegetation and wetland hydrology must be present, | Hydroge | en Sulfide (A4) | | Dark Surfa | ice (S7) | | | Very | Shallow Dark Surface (F22) | |
| Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sem Mucky Peat or Peat (S3) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) X Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Wetland hydrology must be present, unless disturbed or problematic. | Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) X Depleted Matrix (F3) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Cher (Explain in Remarks) A Depleted Matrix (F2) Similar of hydrophytic vegetation and wetland hydrology must be present, | Black H | istic (A3) | | Stripped M | latrix (S6 | 6) | | Red | Parent Material (F21) | |
| Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F8) Redox Dark Surface (F8) Depleted Dark Surface (F8) Wery Shallow Dark Surface (F22) Other (Explain in Remarks) A Depleted Matrix (F3) Redox Dark Surface (F8) Sandy Mucky Mineral (S1) Depleted Dark Surface (F8) Wetland hydrology must be present, unless disturbed or problematic. | Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Dark Surface (S7) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) A Depleted Matrix (F3) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Very Shallow Dark Surface (F22) Other (Explain in Remarks) A Depleted Matrix (F2) Similar Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydrology must be present, | | | | | | | | | | |
| Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Dark Surface (F7) Wetland hydrology must be present, unless disturbed or problematic. | Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) Com Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Stripped Matrix (S6) Dark Surface (S7) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Stripped Matrix (F2) Depleted Matrix (F2) Stratified Layers (A10) Loamy Mucky Mineral (S1) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stratified Layers (A11) Stripped Matrix (S6) Sendy Mucky Mineral (F21) Very Shallow Dark Surface (F22) Stratified Layers (A5) Stripped Matrix (S6) Stripped Matrix (S1) Stripped Matrix | | | | | - | IX (O+) | | | | |
| Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (A12) Redox Dark Surface (F7) Depleted Dark Surface (A12) Redox Depressions (F8) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S5) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) A Depleted Matrix (F2) Sandy Mucky Mineral (S1) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) A Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Very Shallow Dark Surface (F22) Other (Explain in Remarks) A Depleted Matrix (F3) Wetland hydrology must be present, | Histosol | (A1) | | Sandy Gle | ved Mati | rix (S4) | | Coas | st Prairie Redox (A16) | |
| Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (A12) Redox Dark Surface (F7) Depleted Dark Surface (A12) Redox Depressions (F8) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S5) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) A Depleted Matrix (F2) Sandy Mucky Mineral (S1) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) A Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Very Shallow Dark Surface (F22) Other (Explain in Remarks) A Depleted Matrix (F3) Wetland hydrology must be present, | Hydric Soil | Indicators: | | | | | | Indicato | rs for Problematic Hydric Soils ³ : | |
| Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Dark Surface (S7) Very Shallow Dark Surface (F22) Stratified Layers (A5) Loamy Mucky Mineral (F1) Other (Explain in Remarks) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydrology must be present, unless disturbed or problematic. | Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Red Parent Material (F21) Hydrogen Sulfide (A4) Dark Surface (S7) Very Shallow Dark Surface (F22) Stratified Layers (A5) Loamy Mucky Mineral (F1) Other (Explain in Remarks) Zem Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydrology must be present, | | | etion, RM | =Reduced Matrix, M | /IS=Masl | ked Sand | Grains. | | | |
| Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Loamy Mucky Mineral (F1) Zem Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Redox (B2) Redox Dark Surface (F3) Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) Jindicators of hydrophytic vegetation and wetland hydrology must be present, wetland hydrology must be present, unless disturbed or problematic. | ydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) Commandate Surface (A10) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Indicators for Problematic Hydric Soils³: Coast Prairie Redox (A16) Loamy Fadox (S5) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, | 1 _{Type} C=C | Concentration D=Dan | | I-Daduaad Matrix A | | | Crains | 21 agation | DI - Doro Lining M-Metrix | |
| Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Loamy Mucky Mineral (F1) Zem Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Redox (B2) Redox Dark Surface (F3) Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) Jindicators of hydrophytic vegetation and wetland hydrology must be present, wetland hydrology must be present, unless disturbed or problematic. | ydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) Commandate Surface (A10) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Indicators for Problematic Hydric Soils³: Coast Prairie Redox (A16) Loamy Fadox (S5) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, | | | | | - | | | | | |
| Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Loamy Mucky Mineral (F1) Zem Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Redox (B2) Redox Dark Surface (F3) Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) Jindicators of hydrophytic vegetation and wetland hydrology must be present, wetland hydrology must be present, unless disturbed or problematic. | ydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) Commandate Surface (A10) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Indicators for Problematic Hydric Soils³: Coast Prairie Redox (A16) Loamy Fadox (S5) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, | | | | | | | | | | |
| Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Loamy Mucky Mineral (F1) Zem Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Redox (B2) Redox Dark Surface (F3) Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) Jindicators of hydrophytic vegetation and wetland hydrology must be present, wetland hydrology must be present, unless disturbed or problematic. | ydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) Commandate Surface (A10) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Indicators for Problematic Hydric Soils³: Coast Prairie Redox (A16) Loamy Fadox (S5) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, | | | | | | | | | | |
| Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Loamy Mucky Mineral (F1) Zem Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Redox (B2) Redox Dark Surface (F3) Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) Jindicators of hydrophytic vegetation and wetland hydrology must be present, wetland hydrology must be present, unless disturbed or problematic. | ydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Stratified Layers (A5) Commandate Surface (A10) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) A Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Very Shallow Dark Surface (F22) Other (Explain in Remarks) A Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Wetland hydrology must be present, | | | | | | | | | | |
| Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Separation Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | ydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Stratified Layers (A5) Commandate Surface (A10) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) A Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Very Shallow Dark Surface (F22) Other (Explain in Remarks) A Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Wetland hydrology must be present, | 4-16 | 10YR 6/1 | 70 | 7.5YR 5/6 | 30 | | IVI | Loamy/Clayey | Prominent redox concentrations | |
| ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Comy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydrology must be present, unless disturbed or problematic. | Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Varic Soil Indicators: Indicators for Problematic Hydric Soils³: | | | | | | | | | | |
| 4-16 10YR 6/1 70 7.5YR 5/6 30 C M Loamy/Clayey Prominent redox concentrations Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Histosol (A2) Sandy Redox (S5) Black Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Endow Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) What Loamy/Clayey Prominent redox concentrations **Loamy/Clayey** Prominent redox concentredox of Prominent redox redox redox redox redox redox redox redox | 4-16 10YR 6/1 70 7.5YR 5/6 30 C M Loamy/Clayey Prominent redox concentrations Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thick Dail Loamy Gleyed Matrix (S4) Thick Dark Surface (A12) Thick Dark Surfa | | | | | | | | | | |
| 0-4 10YR 4/1 95 10YR 5/6 5 C M Loamy/Clayey Prominent redox concentrations 4-16 10YR 6/1 70 7.5YR 5/6 30 C M Loamy/Clayey Prominent redox concentrations 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1 Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Dark Surface (S7) Very Shallow Dark Surface (F22) Stratified Layers (A5) Loamy Mucky Mineral (F1) Other (Explain in Remarks) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) X Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. | 10YR 4/1 95 10YR 5/6 5 C M Loamy/Clayey Prominent redox concentrations 4-16 10YR 6/1 70 7.5YR 5/6 30 C M Loamy/Clayey Prominent redox concentrations Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thick Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thick Dark Sufface (A12) Thick Dark Surface (A12) Sandy Gleyed Matrix (S4) Sandy Rdedox (S5) Thick Dark Surface (A12) Sandy Rdedox (S5) Thick Dark Surface (A12) Sandy Rdedox Dark Surface (F6) Thick Dark Surface (A12) Sandy Rdedox Dark Surface (F6) Sandy Mucky Mineral (S1) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydrology must be present, | Depth | Matrix | | | | | | | | |
| (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks 0-4 10YR 4/1 95 10YR 5/6 5 C M Loamy/Clayey Prominent redox concentrations 4-16 10YR 6/1 70 7.5YR 5/6 30 C M Loamy/Clayey Prominent redox concentrations ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histosol (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Dark Surface (S7) Very Shallow Dark Surface (F22) Stratified Layers (A5) Loamy Mucky Mineral (F1) Other (Explain in Remarks) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) X Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) 3¹Indicators of hydrophytic vegetation and wetland hydrology must be p | Tolor (moist) | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | , | |

| Project/Site: Chicago O'Hare International Airport (C | ORD) | City/Cour | nty: Chicago | o/Cook | Sampling | Date: 9/1 | 17/2019 |
|---|-----------------|----------------|-----------------|---------------------------------|--|---------------|----------------|
| Applicant/Owner: City of Chicago | | | | | L Sampling | Point: NV | V39 WET |
| Investigator(s): Brauna Hartzell, Conor Makepeace, | Mead & Hunt, Ir | c. Section, T | ownship, Ra | inge: Section 25, | T41N, R11E | - | |
| Landform (hillside, terrace, etc.): shallow basin | | | | concave, convex, r | | | |
| Slope (%): <1% Lat: 42.01085647 | | | , | , , | · ——— | S84 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly | v level (Predom | | | | | | |
| | | | | - | · | | |
| Are climatic / hydrologic conditions on the site typica | | - | Yes | | no, explain in Rem | | |
| Are Vegetation, Soil, or Hydrology | | | | | | No | — |
| Are Vegetation, Soil, or Hydrology | naturally prob | olematic? (I | f needed, ex | plain any answers | in Remarks.) | | |
| SUMMARY OF FINDINGS – Attach site | map showir | ıg samplin | g point lo | cations, trans | sects, importa | nt feature | es, etc. |
| Hydrophytic Vegetation Present? Yes X | No | Is the | Sampled A | rea | | | |
| | No | | a Wetland | | X_ No | | |
| Wetland Hydrology Present? Yes X | No | | | • | | _ | |
| Remarks: | | | | | | | |
| Climatic/hydrologic conditions are not typical due to | o an above ave | age amount o | of rainfall dur | ing September 20 | 19. Receives run | off from parl | king lot to |
| the north. | | | | | | | |
| VEGETATION – Use scientific names of p | olants. | | | | | | |
| <u> </u> | Absolute | Dominant | Indicator | Ι | | | |
| Tree Stratum (Plot size:) | % Cover | Species? | Status | Dominance Te | st worksheet: | | |
| 1 | | | | | ninant Species Tha | | |
| 2. | | | | Are OBL, FACV | V, or FAC: | 3 | (A) |
| 3. | | | | | of Dominant Specie | | (D) |
| 4 | | | | Across All Strat | | 3 | (B) |
| 5 | - | Total Cover | | Percent of Dom Are OBL, FACV | ninant Species Tha | | 6 (A/B) |
| Sapling/Shrub Stratum (Plot size: 15ft | \ <u></u> | - Total Covel | | Ale OBL, FACV | V, OI FAC. | 100.070 | <u>. (A/D)</u> |
| 1. Rhamnus cathartica | - ′ | Yes | FAC | Prevalence Inc | dex worksheet: | | |
| | | | | Total % Co | | Multiply by: | |
| 3. | | | | OBL species | 35 x 1 : | | _ |
| 4. | | | • | FACW species | - | | _ |
| 5. | | | | FAC species | 80 x 3 | = 240 | _ |
| | 80 | Total Cover | | FACU species | 0 x 4 | = 0 | _ |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 0 x 5 | = 0 | _ |
| 1. Lythrum salicaria | 30 | Yes | OBL | Column Totals: | 170 (A) | 385 | (B) |
| 2. Phragmites australis | 25 | Yes | FACW | Prevalence I | ndex = B/A = | 2.26 | _ |
| 3. Fraxinus pennsylvanica | 15 | No | FACW | | | | |
| 4. Geum aleppicum | | No | FACW | | egetation Indicato | | |
| 5. Solidago sempervirens | _ 5 | No No | FACW | | est for Hydrophytic nce Test is >50% | vegetation | 1 |
| Lycopus americanus Euthamia graminifolia | | No No | OBL FACW | | nce lest is $>50\%$ nce Index is $\leq 3.0^1$ | | |
| 8. | | <u>No</u> | FACVV | | nce index is ≤3.0 logical Adaptations | 1 (Provide s | supporting |
| | | | | | Remarks or on a se | • | |
| 9. 10. | | | | | c Hydrophytic Vege | • | • |
| | 90 | Total Cover | | | ydric soil and wetla | , , | . , |
| Woody Vine Stratum (Plot size: |) | | | | ess disturbed or pr | | jy must |
| 1 | - ′ | | | Hydrophytic | F- | | |
| 2. | | | | Vegetation | | | |
| | : | Total Cover | | Present? | Yes X N | o | |
| Remarks: (Include photo numbers here or on a se | parate sheet \ | | | ! | <u> </u> | | |
| Community Type: wet shrubland HGM Type: dep | | ophytic vegeta | ation is prese | ent. Approx 25ft fro | om paired point, litt | le elevation | change. |

SOIL Sampling Point: NW39 WET 2

| (inches) | Matrix | | i Neuo | x Featur | <u> </u> | | | |
|--|--|--------------------------|---|---|---|---------------------------------------|--|--|
| () | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-3 | 7.5YR 3/1 | 100 | | | | | Loamy/Clayey | clay loam |
| 3-8 | 10YR 4/1 | 100 | | | | | Loamy/Clayey | clay loam |
| 8-16 | 10YR 5/1 | 90 | 10YR 5/6 | 10 | С | М | | Prominent redox concentrations |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Deple | etion, RM= | Reduced Matrix, N | MS=Masl | ked Sand | d Grains. | ² Location | PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Indicator | s for Problematic Hydric Soils ³ : |
| Histosol | | | Sandy Gle | - | | | | t Prairie Redox (A16) |
| | pipedon (A2) | | Sandy Re | | | | | Manganese Masses (F12) |
| | istic (A3) | | Stripped N | | 8) | | | Parent Material (F21) |
| | en Sulfide (A4) | | Dark Surfa | ` ' | | | | Shallow Dark Surface (F22) |
| | d Layers (A5) | | Loamy Mu | • | ٠, | | Other | (Explain in Remarks) |
| | uck (A10) | (8.4.4) | Loamy Gle | - | | | | |
| | d Below Dark Surface | (A11) | X Depleted I | | | | 31 | f bandara badia ara matatian and |
| | ark Surface (A12) | | Redox Da | | ` ' | | | s of hydrophytic vegetation and |
| | /lucky Mineral (S1) ucky Peat or Peat (S3) | | Depleted I Redox De | | ` ' | | | nd hydrology must be present, s disturbed or problematic. |
| | Layer (if observed): | | | picaalori | 3 (1 0) | | | a distarbed or problematic. |
| Type: | Layer (ii observeu). | | | | | | | |
| Depth (i | nches). | | | | | | Hydric Soil Present | ? Yes X No |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| HYDROLO | OGY | | | | | | | |
| Wetland Hy | | | | | | | | |
| | drology Indicators: | | | | | | | |
| - | drology Indicators: cators (minimum of on | ne is requi | red; check all that | apply) | | | <u>Secondar</u> | y Indicators (minimum of two required |
| Primary Indi | | ne is requi | red; check all that Water-Sta | | ves (B9) | | | y Indicators (minimum of two required ce Soil Cracks (B6) |
| Primary Indi | cators (minimum of on | ne is requi | | ined Lea | , , | | Surfa | |
| Primary Indi | cators (minimum of on Water (A1) ater Table (A2) | ne is requi | Water-Sta Aquatic Fa True Aqua | ined Lea auna (B1 atic Plant | 3) s (B14) | | Surfa Drain Dry-S | ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) |
| Primary Indi Surface High Wa X Saturation | cators (minimum of on Water (A1) ater Table (A2) | ne is requi | Water-Sta Aquatic Fa | ined Lea auna (B1 atic Plant | 3) s (B14) | | Surfa Drain Dry-S | ce Soil Cracks (B6) age Patterns (B10) |
| Primary Indi Surface High Wa X Saturati Water M Sedimen | cators (minimum of on Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) | ne is requi | Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F | ined Lea auna (B1 itic Plant Sulfide (Rhizosph | 3) s (B14) Odor (C1 eres on I |) _iving Ro | Surfa Drain Dry-S X_Crayf pots (C3)Satur | ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) |
| Primary Indi Surface High Wa X Saturati Water M Sedimei Drift De | cators (minimum of on Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) | ne is requi | Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence | ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc | 3) s (B14) Odor (C1 eres on l |) _iving Ro (C4) | SurfaDrainDry-SX Crayf pots (C3)SaturStunt | ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) |
| Primary Indi Surface High Wa X Saturati Water M Sedimet Drift Dep Algal Ma | cators (minimum of on Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) | ne is requi | Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro | ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc | 3) s (B14) Odor (C1 eres on I ced Iron (|) _iving Ro (C4) | Surfa | ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) |
| Primary Indi Surface High Wa X Saturati Water M Sedimel Drift Del Algal Ma | cators (minimum of on Water (A1) ater Table (A2) on (A3) Marks (B1) int Deposits (B2) posits (B3) at or Crust (B4) | | Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck | ined Lea auna (B1 atic Plants Sulfide C Rhizosph of Reduc on Reduc Surface | 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) |) _iving Ro (C4) | Surfa | ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) |
| Primary Indi Surface High Wa X Saturati Water M Sedimel Drift Del Algal Ma Iron Dep | cators (minimum of on Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Im | agery (B7 | Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck | ined Lea auna (B1 sulfide (Rhizosph of Reduc on Reduc Surface Well Dat | 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) |) _iving Ro (C4) Iled Soil: | Surfa | ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) |
| Primary Indi Surface High Wa X Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsel | cators (minimum of on Water (A1) ater Table (A2) on (A3) flarks (B1) int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Im | agery (B7 | Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck | ined Lea auna (B1 sulfide (Rhizosph of Reduc on Reduc Surface Well Dat | 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) |) _iving Ro (C4) Iled Soil: | Surfa | ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) |
| Primary Indi Surface High Wa X Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely | cators (minimum of on Water (A1) ater Table (A2) on (A3) Marks (B1) int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Im y Vegetated Concave S | nagery (B7 Surface (E | Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp | ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc surface Well Dat blain in R | 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) |) _iving Ro (C4) Iled Soil: | Surfa | ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) |
| Primary Indi Surface High Wa X Saturati Water M Sedimel Drift Del Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wa | cators (minimum of on Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Im y Vegetated Concave S rvations: ter Present? Yes | nagery (B7 Surface (E | Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp | ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat blain in R | 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) temarks) |) _iving Ro (C4) Iled Soil: | Surfa | ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) |
| Primary Indi Surface High Wa X Saturati Water M Sedimel Drift Del Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wa Water Table | cators (minimum of on Water (A1) ater Table (A2) on (A3) Marks (B1) Int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imply Vegetated Concave Servations: ter Present? Yes | nagery (B7 Surface (E | Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 38) Other (Exp | ined Lea auna (B1 titic Plant Sulfide (Rhizosph of Reduc in Reduc is Surface Well Dat Depth (ii Depth (ii | 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) nches):nches): _ |) Living Ro (C4) Illed Soil: | Surfa Drain Dry-S X Crayf Soots (C3) Satur Stunt S (C6) FAC- | ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) bish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5) |
| Primary Indi Surface High Wa X Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obset Surface Wa Water Table Saturation F | cators (minimum of on Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial Im y Vegetated Concave Servations: ter Present? Yes Present? Yes | nagery (B7 Surface (E | Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 38) Other (Exp | ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat blain in R | 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) temarks) nches):nches): _ |) Living Ro (C4) Illed Soil: | Surfa | ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) bish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5) |
| Primary Indi Surface High Wa X Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wa Water Table Saturation F (includes ca | cators (minimum of on Water (A1) ater Table (A2) on (A3) flarks (B1) int Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial Im y Vegetated Concave S rvations: ter Present? Yes Present? Yes pillary fringe) | nagery (B7 Surface (E | Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp No X No X No | ined Lea auna (B1 titic Plant: Sulfide C Rhizosph of Reduc on Reduc Surface Well Dat: blain in R Depth (ii Depth (ii | 3) s (B14) Ddor (C1 eres on led Iron (C7) a (D9) demarks) nches): _ nches): _ |) Living Ro (C4) Illed Soils | Surfa Drain Dry-S X Crayf oots (C3) Satur Stunt Geon X FAC- | ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) bish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5) |
| Primary Indi Surface High Wa X Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wa Water Table Saturation F (includes ca | cators (minimum of on Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial Im y Vegetated Concave Servations: ter Present? Yes Present? Yes | nagery (B7 Surface (E | Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp No X No X No | ined Lea auna (B1 titic Plant: Sulfide C Rhizosph of Reduc on Reduc Surface Well Dat: blain in R Depth (ii Depth (ii | 3) s (B14) Ddor (C1 eres on led Iron (C7) a (D9) demarks) nches): _ nches): _ |) Living Ro (C4) Illed Soils | Surfa Drain Dry-S X Crayf oots (C3) Satur Stunt Geon X FAC- | ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) bish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5) |
| Primary Indi Surface High Wa X Saturati Water M Sedimel Drift Del Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wa Water Table Saturation F (includes ca Describe Re | cators (minimum of on Water (A1) ater Table (A2) on (A3) Marks (B1) Int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imply Vegetated Concave Servations: ter Present? Present. Pres | nagery (B7 Surface (E | Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp No X No X No | ined Lea auna (B1 titic Plant: Sulfide C Rhizosph of Reduc on Reduc Surface Well Dat: blain in R Depth (ii Depth (ii | 3) s (B14) Ddor (C1 eres on led Iron (C7) a (D9) demarks) nches): _ nches): _ |) Living Ro (C4) Illed Soils | Surfa Drain Dry-S X Crayf oots (C3) Satur Stunt Geon X FAC- | ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) bish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5) |
| Primary Indi Surface High Wa X Saturati Water M Sedimel Drift Del Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wa Water Table Saturation F (includes ca Describe Re | cators (minimum of on Water (A1) ater Table (A2) on (A3) flarks (B1) int Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial Im y Vegetated Concave S rvations: ter Present? Yes Present? Yes pillary fringe) | nagery (B7 Surface (E | Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp No X No X No | ined Lea auna (B1 titic Plant: Sulfide C Rhizosph of Reduc on Reduc Surface Well Dat: blain in R Depth (ii Depth (ii | 3) s (B14) Ddor (C1 eres on led Iron (C7) a (D9) demarks) nches): _ nches): _ |) Living Ro (C4) Illed Soils | Surfa Drain Dry-S X Crayf oots (C3) Satur Stunt Geon X FAC- | ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) bish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5) |
| Primary Indi Surface High Wa X Saturati Water M Sedimel Drift Del Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wa Water Table Saturation F (includes ca Describe Re | cators (minimum of on Water (A1) ater Table (A2) on (A3) Marks (B1) Int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imply Vegetated Concave Servations: ter Present? Present. Pres | nagery (B7 Surface (E | Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp No X No X No | ined Lea auna (B1 titic Plant: Sulfide C Rhizosph of Reduc on Reduc Surface Well Dat: blain in R Depth (ii Depth (ii | 3) s (B14) Ddor (C1 eres on led Iron (C7) a (D9) demarks) nches): _ nches): _ |) Living Ro (C4) Illed Soils | Surfa Drain Dry-S X Crayf oots (C3) Satur Stunt Geon X FAC- | ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) bish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5) |

| Project/Site: Chicago O'Hare International Airport (ORD) | Cit | y/County: _(| Chicago/Cool | k or DuPage | Saı | mpling Date | 8/22 | /2019 |
|--|----------------|--------------|-------------------------|---------------------------|-------------------------------|---------------|--|-----------------|
| Applicant/Owner: City of Chicago | | | | State: | IL Sar | mpling Point | : SE19 | 9-46 UPL |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Shannon, Mead & H | Hunt, Inc. Sec | tion, Towns | hip, Range: | Section 17 | , T40N, R12 | E | | |
| Landform (hillside, terrace, etc.): basin | | Local | relief (conca | ve, convex, | none):_none | : | | |
| Slope (%): <1% Lat: 41.95265727 | L | ong: -87.90 | 187268 | | Datur | n: WGS84 | | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly level (Pro | edominantly | Non-hydric (| (6%)) | NWI | classificatio | n: | | |
| Are climatic / hydrologic conditions on the site typical for this t | ime of year? | Yes | X No | o (If | no, explain i | n Remarks.) |) | |
| Are Vegetation X , Soil , or Hydrology signification | antly disturbe | _ | ormal Circun | | | | | |
| Are Vegetation , Soil , or Hydrology naturally | | | ded, explain | | | | | _ |
| SUMMARY OF FINDINGS – Attach site map sho | | | | - | | | atures | s, etc. |
| Hydrophytic Vegetation Present? Yes No X | | Is the Sam | pled Area | | | | | |
| Hydric Soil Present? Yes No X | - | within a W | - | Yes | | lo X | | |
| Wetland Hydrology Present? Yes No X | | | | | | | | |
| Remarks: | • | | | | | | | |
| Area is mown. | | | | | | | | |
| | | | | | | | | |
| VEGETATION – Use scientific names of plants. | | | | | | | | |
| Abso <u>Tree Stratum</u> | | | cator atus Do | minance Te | est workshe | et: | | |
| 1 | | | | mber of Don e OBL, FAC | minant Speci W. or FAC: | es That | 1 | (A) |
| 3. | | | | | of Dominant | Species | | - ` ′ |
| 4. | | | | ross All Stra | | · | 3 | (B) |
| 5 | | | | | ninant Speci | | | |
| O colling/Ohmits Ottockers | =Total (| Cover | Are | e OBL, FAC | W, or FAC: | | 33.3% | _(A/B) |
| Sapling/Shrub Stratum (Plot size:) 1. | | | Pro | evalence Inc | dex worksh | oot: | | |
| 2. | | | — ''' | Total % C | | Multip | olv bv: | |
| 3. | | | OB | BL species | 0 | x 1 = | 0 | _ |
| 4. | | | FA | CW species | 43 | x 2 = | 86 | |
| 5 | | | | C species | 0 | x 3 = | 0 | _ |
| | =Total (| Cover | | CU species | | . ×4= | 228 | _ |
| Herb Stratum (Plot size: 5ft) 1. Echinochloa crus-galli 40 |) Ye | .c EA | | L species lumn Totals: | 100 | x 5 = | 0 314 | – (B) |
| 2. Trifolium repens 30 | | | | | Index = B/A | | | _(D) |
| 3. Digitaria sanguinalis 20 | | | CU | | | | | _ |
| 4. Taraxacum officinale 7 | . No | o FA | CU Hy | drophytic V | egetation Ir | ndicators: | | |
| 5. Solidago sempervirens 3 | No. | FA | CW | _1 - Rapid T | est for Hydr | ophytic Veg | etation | |
| 6 | | | _ | _ | ance Test is | | | |
| 7 | | | | _ | nce Index is | | | |
| 8 | | | _ | | logical Adap Remarks or o | | | |
| 9. | | | | | ic Hydrophyt | | | |
| 10 | 0 =Total 0 | Cover | | _ | | • | | , |
| Woody Vine Stratum (Plot size:) | - Total C | J0 VCI | | | ydric soil an ess disturbe | | | must |
| 1 | | | | drophytic | | | | |
| 2 | | Cover | | getation | Voc | Ne \ | , | |
| | =Total (| Jover | Pre | esent? | Yes | No > | <u>` </u> | |
| Remarks: (Include photo numbers here or on a separate she Community Type: developed land HGM Type: N/A Hydrophytic | , | not present | Data point is | 15ft east of w | vetland data r | ooint· no cha | nae in el | evation |

SOIL Sampling Point: SE19-46 UPL

| Profile Desc Depth | cription: (Describe to Matrix | to the dep | | ument t l x Featur | | ator or o | confirm the absence of | of indicators.) | | |
|-----------------------|-------------------------------|-------------|-------------------------|------------------------------|-------------------|------------------|------------------------|---------------------|-------------|-------------|
| (inches) | Color (moist) | % | Color (moist) | % " Catur | Type ¹ | Loc ² | Texture | R | emarks | |
| 0-7 | 10YR 3/1 | | Color (moist) | | 1,700 | | | | omano | |
| | | 100 | | | | | Loamy/Clayey | | | |
| 7-16 | 10YR 5/6 | 95 | 10YR 5/3 | 5 | <u>C</u> | <u>M</u> | Loamy/Clayey | Distinct redo | ox concent | rations |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| ¹Type: C=Ce | oncentration, D=Depl | etion. RM | =Reduced Matrix. N | MS=Mas | ked Sand | d Grains | Location: | PL=Pore Lining, | M=Matrix | |
| Hydric Soil | | | | | | | | s for Problemati | | |
| Histosol | | | Sandy Gle | ved Mat | rix (S4) | | | t Prairie Redox (A | - | |
| | oipedon (A2) | | Sandy Red | - | | | | Manganese Mass | - | |
| Black Hi | | | Stripped M | | | | | Parent Material (F | | |
| | n Sulfide (A4) | | Dark Surfa | , | , | | | Shallow Dark Sur | • | ı |
| · | l Layers (A5) | | Loamy Mu | , , | eral (F1) | | | (Explain in Rema | ` ' | |
| 2 cm Mu | | | Loamy Gle | - | | | | | , | |
| | d Below Dark Surface | (A11) | Depleted N | | | | | | | |
| | ark Surface (A12) | , | Redox Dar | | - | | ³ Indicator | s of hydrophytic v | egetation a | and |
| | lucky Mineral (S1) | | Depleted D | ark Sur | face (F7) |) | | nd hydrology mus | • | |
| 5 cm Mu | icky Peat or Peat (S3 |) | Redox Dep | | | | | s disturbed or pro | | |
| Restrictive | Layer (if observed): | | | | | | | | | |
| Type: | , , , | | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Present | ? Ye | es | No X |
| Remarks: | , | | | | | | | | | |
| | are not present. Does | s not mee | t hydric soils criteria | | | | | | | |
| , | a. o o | | y ame come cinterna | • | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| HYDROLO | GY | | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | | |
| Primary India | cators (minimum of o | ne is requ | ired; check all that | apply) | | | Secondar | y Indicators (mini | mum of tw | o required) |
| Surface | Water (A1) | | Water-Stai | ned Lea | ives (B9) | | Surfa | ce Soil Cracks (B | 6) | |
| High Wa | iter Table (A2) | | Aquatic Fa | una (B1 | 3) | | Drain | age Patterns (B10 | 0) | |
| Saturation | on (A3) | | True Aqua | tic Plant | s (B14) | | Dry-S | eason Water Tab | le (C2) | |
| Water M | arks (B1) | | Hydrogen | Sulfide (| Odor (C1) |) | Crayf | ish Burrows (C8) | | |
| Sedimer | nt Deposits (B2) | | Oxidized R | thizosph | eres on L | _iving R | oots (C3) Satur | ation Visible on A | erial Imag | ery (C9) |
| Drift Dep | oosits (B3) | | Presence of | of Reduc | ced Iron (| (C4) | Stunt | ed or Stressed Pl | ants (D1) | |
| Algal Ma | it or Crust (B4) | | Recent Iron | n Reduc | tion in Ti | lled Soil | ls (C6) Geon | norphic Position (I | D2) | |
| | osits (B5) | | Thin Muck | Surface | e (C7) | | FAC- | Neutral Test (D5) | | |
| | on Visible on Aerial Ir | | · — | Nell Dat | a (D9) | | | | | |
| Sparsely | Vegetated Concave | Surface (| B8)Other (Exp | lain in F | Remarks) | | | | | |
| Field Obser | vations: | | | | | | | | | |
| Surface Wat | er Present? Ye | s | | Depth (i | nches): _ | | | | | |
| Water Table | | s | No X | Depth (i | nches): | | | | | |
| Saturation P | resent? Ye | s | No X | Depth (i | nches): | | Wetland Hydrolog | y Present? Ye | es | No X |
| (includes cap | | | | | | | | | | |
| Describe Re | corded Data (stream | gauge, m | onitoring well, aeria | l photos | , previous | s inspec | ctions), if available: | | | |
| Damini | | | | | | | | | | |
| Remarks: | rology is neither pres | ont nor in | dicated | | | | | | | |
| vveuanu nyu | nology is helitiel pies | CHE HOL III | aloatou. | | | | | | | |
| | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (ORD) |) | City/Coun | ty: Chicago | /Cook or DuPage | Sampling Date | e: 08/22/2019 |
|---|------------------|---------------|----------------|---|--------------------|---------------------------|
| Applicant/Owner: City of Chicago | | _ | | State: IL | • Sampling Poir | nt: SE19-46 WET |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Shannon, M | ead & Hunt, Inc. | Section, To | ownship, Ra | nge: Section 17, T40N | N, R12E | |
| Landform (hillside, terrace, etc.): basin | | - L | ocal relief (c | concave, convex, none) | concave | |
| | | | 7.90193945 | , | Datum: WGS84 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly lev | | | | | | |
| Are climatic / hydrologic conditions on the site typical for | | | res X | | | \ |
| | • | | | | | |
| Are Vegetation, Soil, or Hydrologysi | | | | | | NO |
| Are Vegetation, Soil, or Hydrologyna SUMMARY OF FINDINGS – Attach site ma | | | | plain any answers in Re | | catures etc |
| Attach site ma | | | | | , important i | |
| Hydrophytic Vegetation Present? Yes X No | | | Sampled Ar | | | |
| | | within | a Wetland? | Yes X | No | |
| Wetland Hydrology Present? Yes X No | | | | | | |
| Remarks: | | | | | | |
| | | | | | | |
| VEGETATION – Use scientific names of plan | te | | | | | |
| VEGETATION – Ose scientific flames of plan | | Dominant | Indicator | | | |
| Tree Stratum (Plot size:) | | Species? | Status | Dominance Test wo | rksheet: | |
| 1 | | | | Number of Dominant | • | 1 (A) |
| | | | | Are OBL, FACW, or | _ | 1(A) |
| 3. 4. | | | | Total Number of Don Across All Strata: | inant Species | 1 (B) |
| 5 | | | | Percent of Dominant | • | |
| | =T | otal Cover | | Are OBL, FACW, or | FAC: | 100.0% (A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | Prevalence Index w | orkshoot: | |
| 1 2. | | | | Total % Cover of | | iply by: |
| 3. | | | | - | 30 x 1 = | |
| 4. | | | | · - | 20 x 2 = | |
| 5. | | | | - | 0 x 3 = | 0 |
| | =T | otal Cover | | FACU species | 0 x 4 = | 0 |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 0 x 5 = | 0 |
| Eleocharis palustris | 72 | Yes | OBL | | 00 (A) | 120 (B) |
| 2. Solidago sempervirens | 15 | No | FACW | Prevalence Index | = B/A = <u>1</u> | .20 |
| 3. Schoenoplectus tabernaemontani | 7 | No No | OBL | Hadaaalada Waasta | diam landiam dan | |
| 4. Echinochloa crus-galli | 5 | No No | FACW | Hydrophytic Vegeta | | actation |
| 5. Asclepias incarnata 6. | 1 | <u>No</u> | OBL | X 1 - Rapid Test fo | | getation |
| 7 | | | | X 3 - Prevalence Ir | | |
| | | | | 4 - Morphologica | | rovide supporting |
| 9. | | - | | | ks or on a separa | |
| 10. | | | | Problematic Hyd | rophytic Vegetati | on ¹ (Explain) |
| | 100 =T | otal Cover | | ¹ Indicators of hydric s | | |
| Woody Vine Stratum (Plot size:) | | | | be present, unless di | | |
| 1 | | | | Hydrophytic | | |
| 2 | | | | Vegetation | | |
| | =T | otal Cover | | Present? Yes | XNo | |
| Remarks: (Include photo numbers here or on a separa Community Type: wet meadow HGM Type: depression | , | nytic vegetat | ion is prese | nt. | | |

SOIL Sampling Point: SE19-46 WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth | Matrix | | Redox | x Featur | es | | | | |
|------------------------|---------------------------------------|--------------|----------------------|------------|-------------------|------------------|--------------------|--------------------|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remarks |
| 0-8 | 7.5YR 2.5/1 | 100 | | | | | Loamy/Clay | yey | clay |
| 8-16 | 7.5YR 4/1 | 95 | 7.5YR 4/6 | 5 | | M | Loamy/Clay | vev | Prominent redox concentrations |
| | | | | | | | | , - , _ | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Dep | letion RM= | Reduced Matrix M | IS=Mas | ked Sand | d Grains | ² l (| ocation. | PL=Pore Lining, M=Matrix. |
| Hydric Soil | | , | | | | | | | s for Problematic Hydric Soils ³ : |
| Histosol | | | Sandy Gle | ved Mat | rix (S4) | | | | Prairie Redox (A16) |
| | pipedon (A2) | | Sandy Red | | | | | _ | langanese Masses (F12) |
| Black Hi | | | Stripped M | | | | | _ | arent Material (F21) |
| | n Sulfide (A4) | | Dark Surfa | | -, | | | _ | Shallow Dark Surface (F22) |
| | Layers (A5) | | Loamy Mu | | eral (F1) | | | _ | (Explain in Remarks) |
| 2 cm Mu | | | Loamy Gle | • | . , | | | _ 0 | (Explain in Normanie) |
| | l Below Dark Surface | - (Δ11) | X Depleted M | - | | | | | |
| | rk Surface (A12) | ,,,,, | Redox Dar | | | | ³ In | dicators | of hydrophytic vegetation and |
| | lucky Mineral (S1) | | Depleted D | | , , | ١ | | | nd hydrology must be present, |
| | cky Peat or Peat (S | 3) | Redox Dep | | , , | , | | | s disturbed or problematic. |
| | · · · · · · · · · · · · · · · · · · · | • | | | - (. 0) | Т | | | , and an experience of programme of |
| _ | Layer (if observed): | | | | | | | | |
| Type: | achoo): | | | | | | Hydric Soil P | rocont? | Yos Y No |
| Depth (ir | | | | | | | nyunc son P | resent | Yes X No |
| unoughout w | etland; many pits te | steu, a man | ix wettariu | | | | | | |
| HYDROLO | GY | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | |
| Primary India | cators (minimum of o | ne is requir | ed; check all that a | apply) | | | Se | condary | / Indicators (minimum of two required) |
| X Surface | Water (A1) | | Water-Stai | ned Lea | ives (B9) | | | Surfac | ce Soil Cracks (B6) |
| X High Wa | ter Table (A2) | | Aquatic Fa | una (B1 | 3) | | | Draina | age Patterns (B10) |
| X Saturation | on (A3) | | True Aquat | tic Plant | s (B14) | | | Dry-Se | eason Water Table (C2) |
| Water M | arks (B1) | | Hydrogen S | Sulfide (| Odor (C1 |) | | _ Crayfis | sh Burrows (C8) |
| Sedimer | t Deposits (B2) | | Oxidized R | hizosph | eres on I | Living Ro | oots (C3) X | _Satura | ation Visible on Aerial Imagery (C9) |
| | osits (B3) | | Presence of | | | ` ' | | _ | ed or Stressed Plants (D1) |
| | t or Crust (B4) | | Recent Iron | | | lled Soil | • • — | _ | orphic Position (D2) |
| | osits (B5) | | Thin Muck | | | | <u> </u> | FAC-N | Neutral Test (D5) |
| | on Visible on Aerial I | 0 , (| , <u> </u> | | | | | | |
| Sparsely | Vegetated Concave | Surface (B | 8)Other (Exp | lain in F | Remarks) | | | | |
| Field Obser | vations: | | | | | | | | |
| Surface Wat | er Present? Ye | s X | No | Depth (i | nches): _ | 1.5 | | | |
| Water Table | | s X | | | nches): | 0 | | | |
| Saturation P | resent? Ye | s X | No | Depth (i | nches): | 0 | Wetland Hy | /drology | y Present? Yes X No No |
| (includes cap | • • | | | | | | | | |
| | corded Data (stream | | = | l photos | , previou | s inspec | tions), if availab | ole: | |
| Remarks: | een on aerials dated | 10/15/2018 | and 4///2017 | | | | | | |
| | rology present and i | ndicated | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Chicago O'Hare International Airport (OR | RD) | City/Cour | nty: Chicago | o/Cook or DuPage | Sampling | g Date: <u>8</u> | /15/2019 |
|---|---------------|-----------------|----------------|--------------------------------|--------------------------------------|--------------------------|--------------|
| Applicant/Owner: City of Chicago | | | | State: I | L Sampling | Point: S | E19-48 UPL |
| Investigator(s): Brauna Hartzell, Kim Shannon, Mead & | & Hunt, Inc. | | Section, To | wnship, Range: | Section 17, T40N | , R12E | |
| Landform (hillside, terrace, etc.): midslope | | | Local relief (| (concave, convex, | none): convex | | |
| Slope (%): 5% Lat: 41.95233797 | | Long: -8 | 37.89716036 | 3 | Datum: W0 | GS84 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly le | evel (Predomi | | | | classification: | | |
| Are climatic / hydrologic conditions on the site typical f | | | Yes X | | no, explain in Ren | narks.) | |
| Are Vegetation X , Soil , or Hydrology | | - | | · | | | |
| Are Vegetation, Soil, or Hydrology | | | | · cplain any answers | | | |
| SUMMARY OF FINDINGS – Attach site m | | | | | , | ınt featu | res, etc. |
| Hydrophytic Vegetation Present? Yes N | o X | Is the | Sampled A | rea | | | |
| | 0 | within | a Wetland | ? Yes_ | No _> | <u> </u> | |
| Wetland Hydrology Present? Yes N | o <u>X</u> | | | | | | |
| Remarks: | | | | | | | |
| Area is mown regularly. | | | | | | | |
| VECETATION . I les esientific nomes et pla | | | | | | | |
| VEGETATION – Use scientific names of pla | Absolute | Dominant | Indicator | · | | | |
| <u>Tree Stratum</u> (Plot size:) | % Cover | Species? | Status | Dominance Te | st worksheet: | | |
| 1 | | | | Number of Dom Are OBL, FACV | ninant Species Th V, or FAC: | at 0 | (A) |
| 3. 4. | | | | | f Dominant Speci | es 1 | (B) |
| 5. | | Total Cover | | Percent of Dom | inant Species Th | | |
| Sapling/Shrub Stratum (Plot size: | | :Total Cover | | Are OBL, FACV | V, or FAC: | 0.0% | <u>(A/B)</u> |
| 1 | ,) | | | Prevalence Ind | ex worksheet: | | |
| 2. | | | | Total % Co | | Multiply by | <i>/</i> : |
| 3. | | | | OBL species | 0 x 1 | = 0 | |
| 4 | | | | FACW species | 0 x 2 | 2 =0 | |
| 5 | | | | FAC species | 0 x 3 | s = <u>0</u> | |
| Harl Objections (Distriction 56) | = | Total Cover | | FACU species | 100 x 4 | | <u> </u> |
| Herb Stratum (Plot size: 5ft) 1. Schedonorus arundinaceus | 05 | Vos | FACU | UPL species Column Totals: | 0 x 5 | 5 = <u>0</u> 400 | (P) |
| Scriedonorus arundinaceus Trifolium repens | 95 | Yes No | FACU | - | 100 (A) ndex = B/A = | 4.00 | (B) |
| Trifolium pratense | 2 | No | FACU | i revalence n | Idex - B/A - | 4.00 | |
| 4 | | | | Hydrophytic Ve | egetation Indicat | ors: | |
| 5. | | | | | est for Hydrophyti | | on |
| 6. | | | | 2 - Domina | nce Test is >50% | | |
| 7. | | | | 3 - Prevaler | nce Index is ≤3.0 ¹ | | |
| 8. | | | | 4 - Morphol | ogical Adaptation | s ¹ (Provide | supporting |
| 9. | | | | | temarks or on a s | • | , |
| 10 | | | | Problemation | Hydrophytic Veg | getation ¹ (E | xplain) |
| Woody Vine Stratum (Plot size: | 100 = | Total Cover | | | dric soil and wetless disturbed or p | | |
| 1. | | | | Hydrophytic | | | |
| 2. | | Total Cover | | Vegetation Present? | Yes ! | No_X_ | |
| Remarks: (Include photo numbers here or on a sepa | | | | | | | |
| Community Type: developed land HGM: N/A Hyd | , | tation is not p | resent. | | | | |

SOIL Sampling Point: SE19-48 UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth | Matrix | | Redox | (Feature | es | | | | | | |
|-------------------------|-------------------------|--------------|------------------------|-----------|-------------------|------------------|--------------------|---------------|---------------|----------------|----------------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | | Remarks | |
| 0-4 | 7.5YR 3/1 | 100 | | | | | Loamy/Claye | еу | | loam | |
| 4-10 | 7.5YR 5/2 | 95 | 7.5YR 4/4 | 5 | С | M | Loamy/Claye | ey | Distinct i | redox concen | trations |
| | | | | | | | | _ | | | |
| | | | | | | | | | | | |
| | | | _ | | | | | | | | |
| | | | | | | | - | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| ¹ Type: C=Ce | oncentration, D=Depl | etion, RM= | Reduced Matrix, M | IS=Masl | ked Sand | Grains. | . ² Loc | cation: Pl | L=Pore Lin | ing, M=Matrix | (. |
| Hydric Soil | Indicators: | | | | | | Indi | icators fo | r Problem | natic Hydric | Soils ³ : |
| Histosol | (A1) | | Sandy Gle | yed Matı | rix (S4) | | | - | airie Redo | | |
| Histic Ep | ipedon (A2) | | Sandy Red | | | | | - | | asses (F12) | |
| Black Hi | ` ' | | Stripped M | | 6) | | | - | ent Materia | | |
| | n Sulfide (A4) | | Dark Surfa | , , | | | | - | | Surface (F22) |) |
| | Layers (A5) | | Loamy Mu | - | | | | Other (Ex | xplain in R | emarks) | |
| 2 cm Mu | , | | Loamy Gle | - | | | | | | | |
| | l Below Dark Surface | (A11) | X Depleted M | | • | | 2 | | | | |
| | rk Surface (A12) | | Redox Dar | | ` ' | | ³Ind | | | ic vegetation | |
| | ucky Mineral (S1) | | Depleted D | | | | | | | must be prese | ent, |
| 5 cm Mu | cky Peat or Peat (S3 |) | Redox Dep | ression | s (F8) | | | unless di | sturbed or | problematic. | |
| Restrictive I | Layer (if observed): | | | | | | | | | | |
| Type: | compacted | layer | _ | | | | | | | | |
| Depth (ir | nches): | 10 | | | | | Hydric Soil Pr | esent? | | Yes X | No |
| | | | | | | | | | | | |
| HYDROLO | GY | | | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | | | |
| _ | cators (minimum of o | ne is requir | ed; check all that a | apply) | | | Sec | condary In | dicators (n | ninimum of tv | o required) |
| Surface | Water (A1) | | Water-Stai | ned Lea | ves (B9) | | | Surface S | Soil Cracks | s (B6) | |
| High Wa | ter Table (A2) | | Aquatic Fa | una (B1 | 3) | | | Drainage | Patterns (| (B10) | |
| Saturation | on (A3) | | True Aquat | ic Plant | s (B14) | | | Dry-Seas | on Water | Table (C2) | |
| Water M | arks (B1) | | Hydrogen S | Sulfide C | Odor (C1) | | | Crayfish | Burrows (0 | C8) | |
| Sedimer | t Deposits (B2) | | Oxidized R | hizosph | eres on L | iving Ro | oots (C3) | Saturatio | n Visible o | on Aerial Imag | ery (C9) |
| Drift Dep | osits (B3) | | Presence of | of Reduc | ced Iron (| C4) | | Stunted | or Stressed | d Plants (D1) | |
| | t or Crust (B4) | | Recent Iron | | | led Soils | s (C6) | - | hic Positio | | |
| | osits (B5) | | Thin Muck | | | | | FAC-Neu | ıtral Test (l | D5) | |
| | on Visible on Aerial Ir | | | | | | | | | | |
| Sparsely | Vegetated Concave | Surface (B | 8)Other (Exp | lain in R | lemarks) | | _ | | | | |
| Field Obser | | | | | | | | | | | |
| Surface Wat | | s | | | nches): _ | | | | | | |
| Water Table | | s | | | nches):_ | | l | | | | |
| Saturation P | | s | No X | Depth (ii | nches): | | Wetland Hyd | arology P | resent? | Yes | No X |
| (includes cap | • • • | 201120 mo | nitaring wall agric | nhotoo | provious | inonos | tions) if availabl | | | | |
| Describe Re | corded Data (stream | yauge, mo | ilitoring well, aerial | priotos, | , previous | spec | uons), n avallabl | e. | | | |
| Remarks: | | | | | | | | | | | |
| Wetland hyd | rology is neither pres | ent nor ind | icated. | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (OR | lD) | City/Cou | unty: Chicag | o/Cook | Sampling D | Date: 8/15/2019 |
|---|----------------|---------------|-----------------|------------------------------|-----------------------------------|-------------------------------|
| Applicant/Owner: City of Chicago | | | | State: | IL Sampling P | oint: SE19-48 WE1 |
| Investigator(s): Brauna Hartzell, Kim Shannon, Mead & | & Hunt, Inc. | Section, | Township, Ra | ange: Section 17 | , T40N, R12E | |
| Landform (hillside, terrace, etc.): shallow swale | | | Local relief (| concave, convex, | none): concave | |
| Slope (%): <1% Lat: 41.95227782 | | I ona. | ` | , , | · — | 884 |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly le | evel (Predom | | | | | |
| - | | | | | | |
| Are climatic / hydrologic conditions on the site typical t | | | Yes X | | no, explain in Rema | |
| Are Vegetation X , Soil X , or Hydrology X | | | | | | NoX |
| Are Vegetation, Soil, or Hydrology | naturally pro | blematic? | (If needed, ex | xplain any answer | s in Remarks.) | |
| SUMMARY OF FINDINGS – Attach site m | ap showir | ng sampli | ng point lo | ocations, tran | sects, importan | t features, etc. |
| Hydrophytic Vegetation Present? Yes X N | 0 | Is the | e Sampled A | rea | | |
| | <u> </u> | | in a Wetland | | X No | |
| Wetland Hydrology Present? Yes X N | | | | | | - |
| Remarks: | | I | | | | |
| Area mown regularly with recent disturbance from mo | owing operati | ions creating | soil ruts thro | oughout and altere | d hydrology due to re | uts. |
| | | | | | | |
| VEGETATION - Use scientific names of pla | ants. | | | | | |
| · | Absolute | Dominant | Indicator | | | |
| Tree Stratum (Plot size:) | % Cover | Species? | Status | Dominance To | est worksheet: | |
| 1. | | | | | minant Species That | |
| 2. | | | | Are OBL, FAC | | 1 (A) |
| 3. | | | | Total Number Across All Stra | of Dominant Species | |
| 5. | | | | | | 1 (B) |
| o | | =Total Cover | | Are OBL, FAC | ninant Species That Woor FAC: | 100.0% (A/B) |
| Sapling/Shrub Stratum (Plot size: | | | | 70 022, 17.0 | , | () |
| 1. | , | | | Prevalence In | dex worksheet: | |
| 2. | | | | Total % C | over of: | ultiply by: |
| 3. | | | | OBL species | 100 x 1 = | 100 |
| 4 | | | | FACW species | s 0 x 2 = | 0 |
| 5 | | | | FAC species | 0 x 3 = | 0 |
| | | =Total Cover | r | FACU species | | |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 0 x 5 = | |
| 1. Eleocharis obtusa | 80 | Yes | OBL | Column Totals | ` | 100 (B) |
| Typha angustifolia Schoenoplectus tabernaemontani | <u>15</u> 3 | No No | OBL OBL | Prevalence | Index = B/A = | 1.00 |
| Schoenoplectus labernaemoniani Schoenoplectus fluviatilis | 2 | No | OBL | Hydrophytic \ | /egetation Indicator | ·e: |
| 5. | | 110 | OBL | 1 | Test for Hydrophytic | |
| 6. | | | | | ance Test is >50% | vogotation |
| 7. | | | | | ence Index is ≤3.0 ¹ | |
| 8. | | | • | 4 - Morpho | ological Adaptations ¹ | (Provide supporting |
| 9. | | | | data in | Remarks or on a sep | arate sheet) |
| 10. | | | | Problemat | ic Hydrophytic Veget | tation ¹ (Explain) |
| | 100 | =Total Cover | · | ¹ Indicators of h | ydric soil and wetlan | d hydrology must |
| Woody Vine Stratum (Plot size: |) | | | | ess disturbed or pro | |
| 1 | | | | Hydrophytic | | |
| 2 | | | | Vegetation | | |
| | | =Total Cover | <u> </u> | Present? | Yes X No | |
| Remarks: (Include photo numbers here or on a sepa | , | Hydrophytic y | regetation is r | present | | |

SOIL Sampling Point: SE19-48 WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth | Matrix | | Redox | Featur | es | | | | | | |
|--------------------|------------------------|--------------|--------------------------|----------|-------------------|------------------|-----------------|--------------|--------------------------------|--------------|----------------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Text | ture | | Remarks | |
| 0-4 | 10YR 2/1 | 95 | 5YR 4/6 | 5 | С | PL/M | Loamy/ | Clayey | Prominent | redox conce | ntrations |
| 4-10 | 7.5YR 3/1 | 95 | 7.5YR 4/6 | 5 | С | PL/M | Loamy/ | /Clayey | Prominent | redox conce | ntrations |
| 10-16 | 7.5YR 3/1 | 70 | | | | | Loamy/ | | | | , |
| | 7.5YR 5/3 | 30 | | | | | Loamy/ | | | clay loam | , |
| | 7.511(5/5 | | | | | | Loanly | Olaycy | | ciay loairi | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| - / 1 | ncentration, D=Depl | etion, RM= | Reduced Matrix, M | S=Masl | ked Sand | Grains | S. | | PL=Pore Lini | | |
| Hydric Soil I | | | | | | | | | for Problem | - | Soils ³ : |
| Histosol (| ` ' | | Sandy Gley | | | | | | Prairie Redox | | |
| | ipedon (A2) | | Sandy Red | | | | | | langanese Ma | | |
| Black His | ` ' | | Stripped Ma | ` | 3) | | | | arent Material | ` ' | |
| | n Sulfide (A4) | | Dark Surfac | , , | | | | | Shallow Dark S | |) |
| | Layers (A5) | | Loamy Muc | - | | | | Other | (Explain in Re | marks) | |
| 2 cm Mu | ` ' | | Loamy Gle | | | | | | | | |
| | Below Dark Surface | (A11) | Depleted M | - | • | | | 2 | | | |
| | rk Surface (A12) | | X Redox Dark | | ` ' | | | | of hydrophytic | · | |
| | ucky Mineral (S1) | | Depleted D | | ` ' | | | | nd hydrology m | | ent, |
| 5 cm Mud | cky Peat or Peat (S3) |) | Redox Dep | ression | s (F8) | | | unless | disturbed or p | oroblematic. | |
| Restrictive L | .ayer (if observed): | | | | | | | | | | |
| Type: | | | | | | | | | | | |
| Depth (in | ches): | | | | | | Hydric So | oil Present? | ? | Yes X | No |
| HADBOLO | CV | | | | | | | | | | |
| HYDROLO | | | | | | | | | | | |
| _ | Irology Indicators: | | | | | | | | | | |
| | ators (minimum of or | ne is requii | | | (DO) | | | | / Indicators (m | | vo required) |
| | Water (A1) | | Water-Stair | | | | | | ce Soil Cracks | • • | |
| | ter Table (A2) | | Aquatic Fau | ` | , | | | | age Patterns (E | - | |
| Saturatio Water Ma | | | True Aquat Hydrogen S | | , , | ١ | | | eason Water T sh Burrows (C | | |
| | t Deposits (B2) | | X Oxidized RI | | | | note (C3) | | ation Visible or | - | en/ (C0) |
| | osits (B3) | | Presence o | • | | • | .0013 (03) | | ed or Stressed | _ | jery (Ca) |
| | t or Crust (B4) | | Recent Iron | | | | ls (C6) | | orphic Position | | |
| | osits (B5) | | Thin Muck | | | | 10 (00) | | Neutral Test (D | | |
| | n Visible on Aerial In | nagery (B7 | | | , , | | | | | | |
| | Vegetated Concave | | | | ` ' | | | | | | |
| Field Observ | | · · | <u> </u> | | | | | | | | |
| Surface Water | | 3 | No X [| Depth (i | nches): | | | | | | |
| Water Table | | | | | nches): | | | | | | |
| Saturation Pr | | | | | nches): | | Wetland | d Hydrolog | y Present? | Yes X | No |
| (includes cap | illary fringe) | | | | · - | | | | | | |
| Describe Rec | corded Data (stream | gauge, mo | nitoring well, aerial | photos | , previous | s inspec | ctions), if ava | ailable: | | | |
| Remarks: | | | | | | | | | | | |
| Hydrology is | indicated. | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (| ORD) | City/Cou | nty: Chicago | o/Cook | Sampling Date: | |
|---|---------------------|-------------------|---------------------|--|---------------------------|--------------------|
| Applicant/Owner: City of Chicago | | | | State: IL | | SE19-53 UPL |
| Investigator(s): Brauna Hartzell, Kim Shannon, Mea | d & Hunt, Inc. | Section, T | ownship, Ra | nge: Section 16, T40N | N, R12E | |
| Landform (hillside, terrace, etc.): midslope | | | Local relief (d | concave, convex, none): | convex | |
| Slope (%): 5 Lat: 41.96390156 | | Long: | 87.8846039 | | Datum: WGS84 | |
| Soil Map Unit Name: 805A - Orthents, clayey, near | ly level (Predomi | nantly Non-h | ydric (6%)) | NWI class | ification: | |
| Are climatic / hydrologic conditions on the site typic | al for this time of | f year? | Yes X | No (If no, ex | plain in Remarks.) | |
| Are Vegetation X , Soil , or Hydrology | significantly d | listurbed? A | re "Normal C | Circumstances" present | ? Yes_X_ N | lo |
| Are Vegetation, Soil, or Hydrology | — naturally prob | lematic? (| If needed, ex | plain any answers in Re | emarks.) | |
| SUMMARY OF FINDINGS – Attach site | | | g point lo | cations, transects | s, important fe | atures, etc. |
| Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes X Wetland Hydrology Present? Yes | No X No X | | Sampled A | | No X | |
| Remarks: | · | | | | | |
| Area mown regularly. | | | | | | |
| | | | | | | |
| VEGETATION – Use scientific names of | plants. | | | | | |
| <u>Tree Stratum</u> (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test wo | rkshoot: | |
| 1. | 70 GGVC1 | Орсоюз: | Otatus | Number of Dominant | | |
| 2. | | | | Are OBL, FACW, or I | • | 0 (A) |
| 3. | | | | Total Number of Don | ninant Species | |
| 4 | | | | Across All Strata: | · | 1 (B) |
| 5 | | | | Percent of Dominant | • | |
| Osalia d'Obash Otsatasa (Distrais | | Total Cover | | Are OBL, FACW, or I | FAC: | 0.0% (A/B) |
| Sapling/Shrub Stratum (Plot size: | | | | Prevalence Index w | orkshoot: | |
| 2. | | | | Total % Cover of | | lv bv [.] |
| 3. | | | | | 0 x 1 = | 0 |
| 4. | | | | | 0 x 2 = | 0 |
| 5. | | | | FAC species | 0 x 3 = | 0 |
| | = | Total Cover | | | 00 x 4 = | 400 |
| Herb Stratum (Plot size: 5ft) | | | | | 0 x 5 = | 0 |
| Schedonorus arundinaceus Tricus | | Yes | FACU | | 00 (A) | 400 (B) |
| Trifolium repens Ambrosia artemisiifolia | | No No | FACU FACU | Prevalence Index | = B/A = 4.0 | 00 |
| Ambrosia arternisinolia Plantago lanceolata | | No | FACU | Hydrophytic Vegeta | tion Indicators: | |
| 5. Taraxacum officinale | | No | FACU | | r Hydrophytic Vege | etation |
| 6. | | | | 2 - Dominance T | | |
| 7. | | | | 3 - Prevalence In | idex is ≤3.0 ¹ | |
| 8. | | | | 4 - Morphologica | l Adaptations¹ (Pro | vide supporting |
| 9 | | | | | ks or on a separate | |
| 10 | | | | Problematic Hyd | rophytic Vegetatior | n¹ (Explain) |
| Woody Vine Stratum (Plot size: | | =Total Cover | | ¹ Indicators of hydric s be present, unless di | • | |
| 1 | | | | Hydrophytic | | |
| 2 | | | | Vegetation | | |
| | | Total Cover | | Present? Yes | No X | |

SOIL Sampling Point: SE19-53 UPL

| | | o tne dept | | | | ator or c | onfirm the absence of | of indicators.) |
|----------------------------------|--|---------------|---------------------|---------------|-------------------------|------------------|--|---|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | k Featur % | es Type ¹ | Loc ² | Texture | Remarks |
| 0-10 | 7.5YR 3/1 | 100 | Color (Moist) | 70 | Турс | | Loamy/Clayey | Remarks |
| | | | 10VP 5/6 | 20 | | | | Draminant raday concentrations |
| 10-16 | 10YR 4/1 | 80 | 10YR 5/6 | 20 | <u>C</u> | <u>M</u> | Loamy/Clayey | Prominent redox concentrations |
| | | | | | | | | layer above is clay |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Depl | etion, RM= | Reduced Matrix, M | 1S=Masl | ked Sand | d Grains. | . ² Location: | PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Indicators | s for Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Sandy Gle | | | | Coast | t Prairie Redox (A16) |
| Histic Ep | oipedon (A2) | | Sandy Red | lox (S5) | | | Iron-N | Manganese Masses (F12) |
| | stic (A3) | | Stripped M | | 6) | | | Parent Material (F21) |
| | en Sulfide (A4) | | Dark Surfa | ` ' | | | | Shallow Dark Surface (F22) |
| | d Layers (A5) | | Loamy Mu | - | | | Other | (Explain in Remarks) |
| | ıck (A10) | (8.4.4) | Loamy Gle | - | | | | |
| | d Below Dark Surface | (A11) | X Depleted N | | - | | 31,- 4: 4 | |
| | Thick Dark Surface (A12)Redox Dark Surface (F6) Sandy Mucky Mineral (S1)Pleted Dark Surface (F7) | | | | | | | s of hydrophytic vegetation and |
| | 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) | | | | | | | nd hydrology must be present, s disturbed or problematic. |
| Restrictive Layer (if observed): | | | | | | | dilics | 3 distarbed of problematic. |
| | Layer (if observed): | | | | | | | |
| Type: Depth (ii | nches): | | | | | | Hydric Soil Present | ? Yes X No |
| | | | _ | | | | Hydric 3011 Fresent | ? Yes X No |
| Remarks: | ara propont Hydria a | oilo indicat | ora Danlatad Pala | u Dork S | Surface (| A11) one | d Depleted Matrix (F3) | are estisfied |
| Tryunc sons | are present. Tryunc s | olis iliulcat | ors Depleted Below | W Daik C | Juliace (| ATT) and | Depleted Matrix (1.5) | are satisfied. |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | OGY | | | | | | | |
| | drology Indicators: | | | | | | | |
| - | cators (minimum of o | ne is requir | ed check all that a | apply) | | | Secondar | y Indicators (minimum of two required) |
| | Water (A1) | no io roquii | Water-Stai | | ves (B9) | | | ce Soil Cracks (B6) |
| | ater Table (A2) | | Aquatic Fa | | , , | | | age Patterns (B10) |
| Saturation | | | True Aqua | • | • | | | Season Water Table (C2) |
| Water M | larks (B1) | | Hydrogen | Sulfide (| Odor (C1 |) | Crayf | ish Burrows (C8) |
| Sedimer | nt Deposits (B2) | | Oxidized R | hizosph | eres on l | Living Ro | oots (C3) Satur | ation Visible on Aerial Imagery (C9) |
| Drift Dep | posits (B3) | | Presence of | of Reduc | ed Iron (| (C4) | Stunt | ed or Stressed Plants (D1) |
| | at or Crust (B4) | | Recent Iron | | | lled Soils | | norphic Position (D2) |
| | oosits (B5) | | Thin Muck | | | | FAC-l | Neutral Test (D5) |
| | on Visible on Aerial Ir | 0 , (| <i></i> | | | | | |
| | / Vegetated Concave | Surface (B | 8)Other (Exp | iain in R | (emarks | | T | |
| Field Obser | | | | | | | | |
| Surface Wat | | | | Depth (i | _ | | | |
| Water Table | | | | Depth (ii | _ | | Wetlend Undrelege | ur Present? Ves No V |
| Saturation P | resent? | <u> </u> | No <u>X</u> | Depth (i | iches). | | Wetland Hydrolog | yy Present? Yes No X |
| | corded Data (stream | gauge mo | nitoring well aeria | nhotos | previous | s inspec | <u>l</u> tions) if available [.] | |
| Describe 10 | Soluca Data (Stream | gaago, mo | moning won, acria | Pilotos | , proviou | c mopeo | asnoj, ii avaliabio. | |
| Remarks: | | | | | | | | |
| Wetland hyd | Irology is neither pres | ent nor ind | icated. | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (ORD |) | City/Cour | nty: Chicago | /Cook | Sampling | Date: 8 | /16/2019 |
|--|---------------------|-------------------|---------------------|---------------------------|---|---------------|-------------|
| Applicant/Owner: City of Chicago | | | | State: | IL Sampling | Point: s | E19-53 WET |
| Investigator(s): Brauna Hartzell, Kim Shannon, Mead & H | Hunt, Inc. | Section, T | ownship, Rar | nge: Section 16 | 5, T40N, R12E | | |
| Landform (hillside, terrace, etc.): swale | | I | _ocal relief (c | oncave, convex, | none): concave | | |
| Slope (%):<1%_ Lat: _41.96387875 | | Long: | 37.8845581 | | Datum: WC | SS84 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly lev | el (Predomin | antly Non-h | /dric (6%)) | NW | I classification: PE | EM | |
| Are climatic / hydrologic conditions on the site typical for | this time of | year? | Yes X | No (If | no, explain in Rem | narks.) | |
| Are Vegetation , Soil , or Hydrology si | gnificantly dis | sturbed? A | re "Normal C | ircumstances" p | resent? Yes X | (No | |
| Are Vegetation , Soil , or Hydrology na | | | | olain any answer | | | |
| SUMMARY OF FINDINGS – Attach site ma | | | g point lo | cations, tran | sects, importa | nt featu | res, etc. |
| Hydrophytic Vegetation Present? Yes X No | | Is the | Sampled Ar | ea | | | |
| | | | · n a Wetland? | | <u> </u> | | |
| Wetland Hydrology Present? Yes X No | | | | | | | |
| Remarks: | | <u>-</u> | | | | | |
| Some mower ruts present on edge of wetland; data poi | nt vegetation | is intact and | d soils are no | t disturbed. | | | |
| | | | | | | | |
| VEGETATION – Use scientific names of plan | | | | | | | |
| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance To | est worksheet: | | |
| 1. | | | | | minant Species Th | | (4) |
| 2. 3. | | | | Are OBL, FAC | | 2 | (A) |
| 4. | - | | | Across All Stra | of Dominant Speci ata: | es 2 | (B) |
| 5. | | | | | minant Species Tha | | |
| O and the or (Obsert) Obsert areas (Plant all and | = | Total Cover | | Are OBL, FAC | W, or FAC: | 100.0 | (A/B) |
| Sapling/Shrub Stratum (Plot size:) 1. | | | } | Provalence In | dex worksheet: | | |
| 2. | | | | Total % C | | Multiply by | <i>,</i> - |
| 3. | | | | OBL species | 33 x 1 | | |
| 4. | | | | FACW species | s 72 x 2 | = 144 | |
| 5. | | | | FAC species | 0 x 3 | = 0 | |
| | = | Total Cover | | FACU species | | | |
| Herb Stratum (Plot size: 5ft) | 60 | Vaa | EA C\\\ | UPL species Column Totals | 0 x 5 | | (D) |
| Agrostis stolonifera Schoenoplectus pungens | 60 30 | Yes Yes | OBL | | 105 (A) Index = B/A = | 177 1.69 | (B) |
| Cyperus esculentus | 10 | No | FACW | Ticvalcricc | | 1.00 | _ |
| 4. Juncus nodosus | 3 | No | OBL | Hydrophytic V | /egetation Indicat | ors: | |
| 5. Persicaria pensylvanica | 2 | No | FACW | | Test for Hydrophyti | | on |
| 6. | | | | | ance Test is >50% | | |
| 7 | | | | | ence Index is ≤3.0 ¹ | | |
| 8 | | | | | ological Adaptation | | |
| 9 | | | | | Remarks or on a se | | • |
| 10 | 405 | <u> </u> | | | tic Hydrophytic Veg | • | . , |
| Woody Vine Stratum (Plot size:) | 105 = | Total Cover | | | nydric soil and wetla less disturbed or pi | - | |
| 1. | | | | Hydrophytic | | | |
| 2. | | | | Vegetation | | | |
| | =1 | Γotal Cover | | Present? | Yes X | 4o | |
| Remarks: (Include photo numbers here or on a separa Community Type: wet meadow HGM Type: depressional Hydrophyti | , | resent. Also pre | sent is Alisma sul | ocordatum. Saggitaria | a sp., Lythrum salicaria : | Solidago semr | pervirens. |

SOIL Sampling Point: SE19-53 WET

| | - | to the dept | | ument t l x Featur | | ator or c | onfirm the absence | of indicators.) |
|---------------------------|---|---------------|----------------------|------------------------------|-------------------|--|------------------------------|--|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | x Featur % | Type ¹ | Loc ² | Texture | Remarks |
| 0-3 | 7.5YR 3/1 | 100 | Color (moist) | 70 | Турс | | Loamy/Clayey | clay with high organic content |
| | | | 40VD 5/0 | | | | - | |
| 3-7 | 10YR 3/1 | 98 | 10YR 5/6 | 2 | <u>C</u> | <u>M</u> | Loamy/Clayey | Prominent redox concentrations |
| 7-18 | 10YR 5/1 | 75 | 10YR 5/6 | 25 | <u>C</u> | M | Loamy/Clayey | Prominent redox concentrations |
| | | | | | | | | all layers of clay |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | oncentration, D=Dep | oletion, RM= | Reduced Matrix, N | /IS=Mas | ked San | d Grains. | | : PL=Pore Lining, M=Matrix. |
| Hydric Soil | | | | | | | | rs for Problematic Hydric Soils ³ : |
| Histosol | . , | | Sandy Gle | - | | | | st Prairie Redox (A16) |
| | pipedon (A2) | | Sandy Red | ٠, | | | | Manganese Masses (F12) |
| Black His | | | Stripped M | | o) | | | Parent Material (F21) |
| | n Sulfide (A4) | | Dark Surfa | , , | | | | Shallow Dark Surface (F22) |
| | Layers (A5) | | Loamy Mu | - | | | Othe | r (Explain in Remarks) |
| 2 cm Mu | , | - (444) | Loamy Gle | - | | | | |
| | Below Dark Surface | e (A11) | X Depleted N | - | | | 3 Indicator | re of hydrophytic vegetation and |
| | irk Surface (A12) | | X Redox Dai | ` | | rs of hydrophytic vegetation and and hydrology must be present, | | |
| | lucky Mineral (S1) cky Peat or Peat (S | Redox De | | , , | , | | ss disturbed or problematic. | |
| | | - | Nedox De | 716331011 | 3 (1 0) | | unies | ss disturbed or problematic. |
| | Layer (if observed) | • | | | | | | |
| Type: Depth (ir | ochee). | | | | | | Hydric Soil Present | t? Yes X No |
| Remarks: | | | | | | | Hydric 3011 Freseni | 1? Yes X No |
| Hydric soils a satisfied. | are present. Hydric | soils indicat | ors Depleted Belo | w Dark S | Surface (| A11), De | epleted Matrix (F3), ar | nd Redox Dark Surface (F6) are |
| HYDROLO | | | | | | | | |
| - | drology Indicators | | | | | | 0 1 | |
| | cators (minimum of | one is requii | | | (DO) | | | ry Indicators (minimum of two required) |
| X Surface | ` , | | Water-Sta | | ` ' | 1 | | ace Soil Cracks (B6) |
| X Saturation | ter Table (A2) | | Aquatic Fa | • | • | | | nage Patterns (B10) Season Water Table (C2) |
| | arks (B1) | | Hydrogen | | ` , |) | <u> </u> | fish Burrows (C8) |
| | it Deposits (B2) | | Oxidized F | | | | | ration Visible on Aerial Imagery (C9) |
| | osits (B3) | | Presence | | | _ | | ted or Stressed Plants (D1) |
| | t or Crust (B4) | | Recent Iro | | | . , | | morphic Position (D2) |
| | osits (B5) | | Thin Muck | | | | ` ' — | -Neutral Test (D5) |
| | on Visible on Aerial | lmagery (B7 | | | , , | | _ | (-, |
| Sparsely | Vegetated Concav | e Surface (B | · — · | | . , |) | | |
| Field Obser | vations: | | <u> </u> | | | | | |
| Surface Wat | | es X | No | Depth (i | nches): | 1 | | |
| Water Table | | es X | | | nches): | 14 | | |
| Saturation P | resent? Y | es X | No | Depth (i | nches): | 0 | Wetland Hydrolog | gy Present? Yes X No |
| (includes cap | oillary fringe) | | | | | | | |
| Describe Re | corded Data (strean | n gauge, mo | nitoring well, aeria | l photos | , previou | s inspect | tions), if available: | |
| D 1 | | | | | | | | |
| Remarks: Wetland hvd | rology is present an | d indicated | Surface water pro | sent with | nin samn | ling area | | |
| vvodanu nyu | lology is present an | a mulcaled. | Carrace water pre | JOIN WILI | mi saiiip | miy ai ca | | |
| | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (OR | lD) | _ City/Cour | nty: Chicago | o/Cook | Sampling Da | ite: <u>8/30</u> | /2019 |
|--|---------------------|-------------------|---------------------|-----------------------------------|--|------------------|-------------------------|
| Applicant/Owner: City of Chicago | | | | State: IL | Sampling Po | int: SE19-5 | 55 UPL (basin1) |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Shannon | , Mead & Hunt, Inc. | _Section, T | ownship, Ra | nge: Section 17, T | 40N, R12E | | |
| Landform (hillside, terrace, etc.): flat | | ι | _ocal relief (d | concave, convex, no | ne): none | | |
| Slope (%):<1% Lat: 41.95234382 | | | 37.90352799 | 1 | Datum: WGS8 | 4 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly I | evel (Predomin | antly Non-hy | /dric (6%)) | NWI cl | assification: | | |
| Are climatic / hydrologic conditions on the site typical | for this time of y | year? | Yes X | No (If no | , explain in Remark | s.) | |
| Are Vegetation, Soil, or Hydrology | significantly dis | | | | | | |
| Are Vegetation , Soil , or Hydrology | | | | | · · · · · · · · · · · · · · · · · · · | | _ |
| SUMMARY OF FINDINGS – Attach site m | | | | | | feature | s, etc. |
| Hydrophytic Vegetation Present? Yes N | o X | Is the | Sampled A | rea | | | |
| | 0 | | a Wetland | | No_X | | |
| Wetland Hydrology Present? Yes N | o X | | | _ | | | |
| Remarks: | | <u>-</u> | | | | | |
| | | | | | | | |
| | | | | | | | |
| VEGETATION – Use scientific names of pla | | | | | | | |
| Tree Stratum (Plot size:) | | Dominant Species? | Indicator Status | Dominance Test | worksheet: | | |
| 1 | | | | Number of Domir Are OBL, FACW, | nant Species That | 0 | (A) |
| 3. | | | | | Dominant Species | | _('') |
| 4. | | | | Across All Strata: | • | 1 | (B) |
| 5 | | F-4-1 O | | Percent of Domin | • | 0.00/ | (A (D) |
| Sapling/Shrub Stratum (Plot size: | | Total Cover | | Are OBL, FACW, | or FAC: | 0.0% | (A/B) |
| 1 | | | | Prevalence Inde | x worksheet: | | |
| 2. | | | | Total % Cov | | tiply by: | |
| 3. | | | | OBL species | 0 x 1 = | 0 | _ |
| 4. | | | | FACW species | 5 x 2 = | 10 | _ |
| 5 | | | | FAC species | 0 x 3 = | 0 | _ |
| Harl Otratura (Distaine 55 | =1 | Total Cover | | FACU species | 95 x 4 = _ | 380 | _ |
| Herb Stratum (Plot size: 5ft) 1. Schedonorus arundinaceus | 95 | Yes | FACU | UPL species Column Totals: | $0 \times 5 = $ | 390 | — (B) |
| Phalaris arundinacea | 3 | No | FACW | Prevalence Inc | (, | 3.90 | – ^(D) |
| Solidago sempervirens | 2 | No | FACW | 1 Tovalonico inc | | 0.00 | _ |
| 4. | | | | Hydrophytic Veg | getation Indicators | : | |
| 5. | | | | 1 - Rapid Tes | st for Hydrophytic V | egetation | |
| 6 | | | | | ce Test is >50% | | |
| 7 | | | | | e Index is ≤3.0 ¹ | | |
| 8 | | | | | gical Adaptations ¹ (I | | |
| 9. | | | | | marks or on a sepa | | |
| 10 | 400 -7 | Fatal Caves | | | Hydrophytic Vegeta | | , |
| Woody Vine Stratum (Plot size: | 100=1 | Γotal Cover | | | ric soil and wetland s disturbed or probl | | / must |
| 1. | | | | Hydrophytic | | | |
| 2 | | Total Carra | | Vegetation | Voo N- | ~ | |
| | | Total Cover | | Present? | Yes No_ | <u> </u> | |
| Remarks: (Include photo numbers here or on a sepa | , | on is not pres | ent Annroy 2 | Off senarates from we | tland nt with little elev | ation chan | ne: flat |

Soil Sampling Point: SE19-55 UPL (basin1)

| | | to the dept | | | | ator or c | onfirm the absence of | of indicators.) | | |
|---|------------------------------------|---------------|--------------------------------------|---------------|-------------------------|----------------------------------|--------------------------|--|--|--|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | k Featur % | es Type ¹ | Loc ² | Texture | Remarks | | |
| 0-4 | 10YR 3/1 | 100 | Color (moist) | 70 | Турс | | Loamy/Clayey | Remarks | | |
| | | | | | | | | | | |
| 4-10 | 10YR 3/1 | 80 | 7 EVD 4/4 | | | | Loamy/Clayey | Descriptions and an along consentrations | | |
| 10.10 | 2.5YR 4/1 | 15 | 7.5YR 4/4 | 5 | <u>C</u> | <u>M</u> | Loamy/Clayey | Prominent redox concentrations | | |
| 10-16 | 10YR 4/1 | 98 | 7.5YR 4/6 | 2 | <u>C</u> | M | Loamy/Clayey | Prominent redox concentrations | | |
| | | . —— - | | | | | | | | |
| | | · — – | | | | | | | | |
| 1 | | · — – | | | | | | | | |
| | oncentration, D=Dep | letion, RM= | Reduced Matrix, M | 1S=Mas | ked Sand | d Grains. | | PL=Pore Lining, M=Matrix. | | |
| Hydric Soil | | | Sandy Clar | und Mat | riv (C1) | | | s for Problematic Hydric Soils ³ : | | |
| Histosol | oipedon (A2) | | Sandy Gleg Sandy Red | | | | | t Prairie Redox (A16) Manganese Masses (F12) | | |
| Black Hi | | | Stripped M | | | | | Parent Material (F21) | | |
| | n Sulfide (A4) | | Dark Surfa | | 3) | | | Shallow Dark Surface (F22) | | |
| | l Layers (A5) | | Loamy Mu | ` ' | eral (F1) | | | (Explain in Remarks) | | |
| | ick (A10) | | Loamy Gle | - | | | | , | | |
| Depleted | d Below Dark Surfac | e (A11) | X Depleted N | - | | | | | | |
| Thick Dark Surface (A12) X Redox Dark Surface (F6) | | | | | | | ³ Indicator | s of hydrophytic vegetation and | | |
| Sandy M | lucky Mineral (S1) | | Depleted D | ark Sur | face (F7) |) | wetla | nd hydrology must be present, | | |
| 5 cm Mu | cky Peat or Peat (S | Redox Dep | ression | s (F8) | | unless disturbed or problematic. | | | | |
| Restrictive | Layer (if observed): | | | | | | | | | |
| Type: | | | | | | | | | | |
| Depth (in | nches): | | _ | | Hydric Soil Present | ? Yes <u>X</u> No | | | | |
| Remarks: | Remarks: | | | | | | | | | |
| Hydric soils | are present. Hydric | soils indicat | ors Depleted Matr | ix (F3) a | and Redo | x Dark S | Surface (F6) are satisfi | ed. | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| HYDROLO | NCV | | | | | | | | | |
| | | | | | | | | | | |
| - | drology Indicators: | | adı abaalı all that i | (برامم | | | Casandar | u Indiantara (minimum of tuo required) | | |
| - | cators (minimum of o Water (A1) | one is requir | ed, crieck all triat a Water-Stai | | wes (RQ) | | | <u>y Indicators (minimum of two required)</u> ce Soil Cracks (B6) | | |
| | iter Table (A2) | | Aquatic Fa | | , , | | | age Patterns (B10) | | |
| Saturation | ` ' | | True Aqua | | | | | Season Water Table (C2) | | |
| | arks (B1) | | Hydrogen | | |) | | ish Burrows (C8) | | |
| | nt Deposits (B2) | | Oxidized R | hizosph | eres on I | Living Ro | | ation Visible on Aerial Imagery (C9) | | |
| Drift Dep | oosits (B3) | | Presence of | of Reduc | ced Iron (| (C4) | Stunt | ed or Stressed Plants (D1) | | |
| Algal Ma | t or Crust (B4) | | Recent Iron | n Reduc | tion in Ti | lled Soils | Geon (C6) | norphic Position (D2) | | |
| | osits (B5) | | Thin Muck | | ` ' | | FAC- | Neutral Test (D5) | | |
| | on Visible on Aerial I | 0 , (| | | | | | | | |
| Sparsely | Vegetated Concave | e Surface (B | 8)Other (Exp | lain in R | Remarks) | | _ | | | |
| Field Obser | | | | | | | | | | |
| Surface Wat | | | | | nches): _ | | | | | |
| Water Table | | | | | nches): _ | | Wotlond Hidral | w Procent? Ves No V | | |
| Saturation P | | es | No X | Depth (i | nches): | | Wetland Hydrolog | gy Present? Yes No X | | |
| (includes ca | corded Data (stream | dande mo | nitoring well aeria | photos | previou | s inspect | ions) if available: | | | |
| Describe IVE | co. dod Data (Stream | . gaage, me | | Pilotos | , proviou | o mopeo | , ii avallabio. | | | |
| Remarks: | | | | | | | | | | |
| Wetland hyd | rology is neithr pres | ent nor indic | ated. Standing wa | ter obse | erved afte | er heavy | rainstorm at earlier da | te but none at time of data point. | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (ORE |)) | City/Cou | nty: Chicag | o/Cook | Sampling D | ate: 8/20/2 | 2019 |
|---|---------------------|----------------------|---------------------|------------------------|-----------------------------------|---------------------------|----------|
| Applicant/Owner: City of Chicago | | | | State: IL | | oint: SE19 | -55 UPL |
| Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, N | Mead & Hunt, Ir | c. Section, 1 | Γownship, Ra | ange: Section 17, | T40N, R12E | | |
| Landform (hillside, terrace, etc.): basin/detention | | | Local relief (| concave, convex, no | one): convex | | |
| Slope (%): 0-1 Lat: 41.95205959 | | | · | 1 | | 84 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly le | vel (Predom | | | | | | |
| Are climatic / hydrologic conditions on the site typical for | | | Yes X | | o, explain in Remarl | ko) | |
| | | - | | | | | |
| Are Vegetation, Soil, or Hydrologys | | | | | | NO | - |
| Are Vegetation, Soil, or Hydrologyn | | | | | | . | -4- |
| SUMMARY OF FINDINGS – Attach site ma | ip snowii | ng sampiir | ig point ic | ocations, trans | ects, important | teatures | , etc. |
| | X | Is the | Sampled A | rea | | | |
| | X | withi | n a Wetland | ? Yes_ | No X | ı | |
| Wetland Hydrology Present? Yes X No | | | | | | | |
| Remarks: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| VEGETATION – Use scientific names of plan | | <u> </u> | | _ | | | |
| <u>Tree Stratum</u> (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Tes | t worksheet: | | |
| 1 | | | | Number of Domi | nant Species That | | |
| 2. | | | | Are OBL, FACW | | 0 | (A) |
| 3 | | | | | Dominant Species | | |
| 4 | | | | Across All Strata | ı: | 1 | (B) |
| 5 | | | | | nant Species That | 0.00/ | (* /B) |
| Sapling/Shrub Stratum (Plot size:) | | =Total Cover | | Are OBL, FACW | , or FAC: | 0.0% | _(A/B) |
| | | | | Prevalence Inde | | | |
| 1 | | | | Total % Co | | ultiply by: | |
| 3. | | | | OBL species | 0 x 1 = | . , , | - |
| 4. | | | | FACW species | 1 x 2 = | 2 | |
| 5. | | | | FAC species | 10 x 3 = | 30 | _ |
| | | =Total Cover | | FACU species | 84 x 4 = | 336 | _ |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 5 x 5 = | 25 | - |
| Schedonorus pratensis | 80 | Yes | FACU | Column Totals: | 100 (A) | 393 | _(B) |
| 2. Eupatorium serotinum | <u>10</u> 5 | No No | FAC | Prevalence In | dex = B/A = | 3.93 | - |
| Dipsacus laciniatus Cichorium intybus | 4 | No No | UPL FACU | Hydronhytic Ve | getation Indicators | | |
| Solidago sempervirens | | No | FACW | | est for Hydrophytic V | | |
| 6. | | | | | ice Test is >50% | -9 | |
| 7. | | | | | ce Index is ≤3.0 ¹ | | |
| 8. | | | | · — · | ogical Adaptations ¹ (| | |
| 9. | | | | data in Re | emarks or on a sepa | arate sheet) | |
| 10 | | | | Problematic | Hydrophytic Vegeta | ation ¹ (Expla | ain) |
| | 100 | =Total Cover | | | dric soil and wetland | | must |
| Woody Vine Stratum (Plot size:) | | | | be present, unles | ss disturbed or prob | lematic. | |
| 1 | | | | Hydrophytic | | | |
| 2 | | =Total Cover | | Vegetation Present? | Yes No | X | |
| | | TOTAL COVE | | i resent: | | <u> </u> | |
| Remarks: (Include photo numbers here or on a separa Community Type: developed land HGM Type: N/A | , | c vegetation i | is not presen | t. | | | |

SOIL Sampling Point: SE19-55 UPL

| | cription: (Describe t | o the dept | | | | tor or c | onfirm the absence | e of indicators.) |
|------------------------------|---|--------------|-----------------------|--------------|----------------------|------------------|------------------------|---|
| Depth | Matrix | | | Featur | | Loc ² | T 4 | Develope |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | <u>%</u> | Type ¹ | LOC | Texture | Remarks |
| 0-8 | 7.5YR 3/1 | 100 | | | | | Loamy/Clayey | |
| 8-14 | 10YR 5/2 | 50 | | | | | Loamy/Clayey | |
| | 10YR 4/4 | 50 | | | | | Loamy/Clayey | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=Ce | oncentration, D=Depl | etion. RM= | Reduced Matrix. M | IS=Masl | ked Sand | Grains | . ² Locatio | on: PL=Pore Lining, M=Matrix. |
| Hydric Soil | | , | , | | | | | ors for Problematic Hydric Soils ³ : |
| Histosol | | | Sandy Gley | ed Mat | rix (S4) | | | ast Prairie Redox (A16) |
| | ipedon (A2) | | Sandy Red | | , | | | n-Manganese Masses (F12) |
| Black Hi | | | Stripped M | | 6) | | | d Parent Material (F21) |
| — Hydroge | n Sulfide (A4) | | Dark Surfa | ce (S7) | • | | Ver | ry Shallow Dark Surface (F22) |
| | Layers (A5) | | Loamy Mu | cky Mine | eral (F1) | | — Oth | ner (Explain in Remarks) |
| 2 cm Mu | • , , | | Loamy Gle | - | | | | • |
| Depleted | l Below Dark Surface | (A11) | Depleted M | 1atrix (F | 3) | | | |
| Thick Da | rk Surface (A12) | | Redox Dar | k Surfac | e (F6) | | ³ Indicat | ors of hydrophytic vegetation and |
| Sandy M | Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) | | | | | | wet | tland hydrology must be present, |
| 5 cm Mucky Peat or Peat (S3) | | | | ression | s (F8) | | unl | ess disturbed or problematic. |
| Restrictive | _ayer (if observed): | | | | | | | |
| Type: | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Prese | nt? Yes No_X_ |
| Remarks: | | | | | | | | |
| | are not present. Does | not meet | hydric soils criteria | | | | | |
| - | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | GY | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | |
| Primary India | cators (minimum of o | ne is requir | ed; check all that a | apply) | | | Second | lary Indicators (minimum of two required) |
| Surface | Water (A1) | | Water-Stai | | ` , | | Sui | rface Soil Cracks (B6) |
| | ter Table (A2) | | Aquatic Fa | • | • | | | ainage Patterns (B10) |
| X Saturation | ` ' | | True Aquat | | ` ' | | | -Season Water Table (C2) |
| | arks (B1) | | Hydrogen S | | | | | ayfish Burrows (C8) |
| | t Deposits (B2) | | Oxidized R | | | • | . , | turation Visible on Aerial Imagery (C9) |
| | osits (B3) | | Presence of | | , | • | | Inted or Stressed Plants (D1) |
| | t or Crust (B4) | | Recent Iron | | | ied Soil | | omorphic Position (D2) |
| | osits (B5) on Visible on Aerial In | 2000n/ (P7 | Thin Muck | | | | FA | C-Neutral Test (D5) |
| | Vegetated Concave | | · | | | | | |
| | | Surface (L | Other (Exp | iaiii iii iv | emarks) | | 1 | |
| Field Obser | | _ | N. V. | D 41- //- | | | | |
| Surface Wat | | | | | nches): _ | | | |
| Water Table Saturation P | | s X | | | nches): _ nches): | 0 | Wetland Hydrol | ogy Present? Yes X No |
| (includes cap | | | No | Deptii (ii | iches). | | Welland Hydrol | ogy Fresent: Tes NO |
| | corded Data (stream | gauge mo | nitoring well aerial | photos | previous | sinspec | tions), if available: | |
| D COOLING I (C | oo.ada Data (Silvalli | 54490, 1110 | | p. 10103 | , p. 5 v 10 u c | opco | , ii available. | |
| Remarks: | | | | | | | | |
| | rology is present. | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (ORD |) | City/Cou | nty: Chicago | o/Cook | Sampling Dat | te: 08/20/2019 |
|--|---------------|---------------|----------------|-----------------------------------|----------------------------------|------------------------|
| Applicant/Owner: City of Chicago | | | | State: IL | Sampling Poi | int: SE19-55 WET basin |
| Investigator(s): Conor Makepeace, Kim Shannon, Mead | & Hunt, Inc. | Section, T | ownship, Ra | inge: Section 17, T | 40N, R12E | |
| Landform (hillside, terrace, etc.): basin/retention | | _ | Local relief (| concave, convex, nor | ne): concave | |
| Slope (%): <1% Lat: 41.95234369 | | | 87.90347322 | | Datum: WGS84 | 4 |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly lev | el (Predomi | | | | · · | <u>·</u> |
| | | | | | | - \ |
| Are climatic / hydrologic conditions on the site typical for | | - | Yes X | | explain in Remarks | |
| Are Vegetation, Soil, or Hydrologysi | | | | | | No |
| Are Vegetation, Soil, or Hydrologyna | aturally prob | lematic? (| If needed, ex | xplain any answers in | Remarks.) | |
| SUMMARY OF FINDINGS – Attach site ma | p showin | g samplin | g point lo | cations, transe | cts, important | features, etc. |
| Hydrophytic Vegetation Present? Yes X No | | Is the | Sampled A | rea | | |
| | | | n a Wetland | | X No | |
| Wetland Hydrology Present? Yes X No | | | | | | |
| Remarks: | | | | | | |
| Large retention area; data point at edge of upland area | | | | | | |
| | | | | | | |
| VEGETATION – Use scientific names of plan | nts. | | | | | |
| Tara Chartura (Diataina) | Absolute | Dominant | Indicator | Daminones Test | | |
| Tree Stratum (Plot size:) 1. | % Cover | Species? | Status | Dominance Test | | |
| 2. | | | | Number of Domin Are OBL, FACW, | • | 3 (A) |
| 3. | | | | Total Number of D | _ | (/ 1) |
| 4. | | | | Across All Strata: | Johnnant Species | 3 (B) |
| 5. | | | | Percent of Domina | ant Species That | `` |
| | = | Total Cover | | Are OBL, FACW, | | 100.0% (A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | | | |
| 1 | | | | Prevalence Index | worksheet: | |
| 2 | | | | Total % Cove | | tiply by: |
| 3 | | | | OBL species | 20 x 1 = _ | 20 |
| 4 | | | | FACW species | 80 x 2 = _ | 160 |
| 5 | | Total Cover | | FACIL anguing | 0 x3= 0 x4= | 0 |
| <u>Herb Stratum</u> (Plot size: 5ft) | | Total Cover | | FACU species UPL species | 0 x 4 = | 0 |
| 1. Phalaris arundinacea | 40 | Yes | FACW | Column Totals: | 100 (A) | 180 (B) |
| 2. Juncus dudleyi | 30 | Yes | FACW | Prevalence Ind | | 1.80 |
| 3. Lythrum salicaria | 20 | Yes | OBL | | | |
| Solidago sempervirens | 10 | No | FACW | Hydrophytic Veg | etation Indicators: | |
| 5. | | | | X 1 - Rapid Test | for Hydrophytic Ve | getation |
| 6 | | | | X 2 - Dominano | e Test is >50% | |
| 7 | | | | X 3 - Prevalence | | |
| 8 | | | | | ical Adaptations ¹ (F | |
| 9 | | | | | narks or on a separ | |
| 10 | | | | | lydrophytic Vegetat | |
| Marada Vina Otrada | 100 = | Total Cover | | | ic soil and wetland | |
| Woody Vine Stratum (Plot size:) | | | | pe present, unless | s disturbed or proble | ematic. |
| 1. 2. | | | | Hydrophytic | | |
| | | Total Cover | | Vegetation Present? Y | 'es X No | |
| Described (Include whate words are borners | | . 5101 50461 | | . 10001111 | <u> </u> | |
| Remarks: (Include photo numbers here or on a separa Community Type: wet meadow HGM Type: depressi | , | ophytic veget | ation is pres | ent | | |

SOIL Sampling Point: SE19-55 WET basin 1

| | | to the dep | | | | tor or c | onfirm the absence | of indicators.) |
|----------------------------|---------------------------------------|-----------------|---------------------------------------|-------------|----------------------|------------------|---|--|
| Depth | Matrix | 0/ | | x Featur | | Loc ² | T | Damada |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | <u>%</u> | Type ¹ | LOC | Texture | Remarks |
| 0-6 | 10YR 2/1 | 100 | | | | | Loamy/Clayey | loam |
| 6-16 | 10YR 4/1 | 92 | 7.5YR 4/6 | 8 | <u> </u> | M | Loamy/Clayey | Prominent redox concentrations |
| | | | | | | | | above layer sticky clay |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion. RM | Reduced Matrix. M | IS=Masl | ked Sand | Grains. | ² Location | : PL=Pore Lining, M=Matrix. |
| Hydric Soil | | | | | | | | rs for Problematic Hydric Soils ³ : |
| Histosol | | | Sandy Gle | yed Mat | rix (S4) | | | st Prairie Redox (A16) |
| | ipedon (A2) | | Sandy Red | | , , | | | Manganese Masses (F12) |
| Black His | stic (A3) | | Stripped M | atrix (S6 | 6) | | Red | Parent Material (F21) |
| Hydroge | n Sulfide (A4) | | Dark Surfa | ce (S7) | | | Very | Shallow Dark Surface (F22) |
| Stratified | Layers (A5) | | Loamy Mu | cky Mine | eral (F1) | | Othe | r (Explain in Remarks) |
| 2 cm Mu | ck (A10) | | Loamy Gle | yed Mat | rix (F2) | | | |
| X Depleted | l Below Dark Surface | (A11) | X Depleted M | /latrix (F | 3) | | | |
| Thick Da | rk Surface (A12) | | Redox Dar | | , , | | ³ Indicato | rs of hydrophytic vegetation and |
| | ucky Mineral (S1) | | Depleted D | | | | | and hydrology must be present, |
| 5 cm Mu | cky Peat or Peat (S3 |) | Redox Dep | ression | s (F8) | | unles | ss disturbed or problematic. |
| Restrictive I | _ayer (if observed): | | | | | | | |
| Type: | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Presen | t? Yes X No |
| Remarks: | | | | | | | | |
| Hydric soils a | are present. Hydric s | oils indica | tors Depleted Belov | w Dark S | Surface (A | 411) and | d Depleted Matrix (F3) | are satisfied. |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | GY | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | |
| | cators (minimum of o | ne is requi | red; check all that a | apply) | | | Seconda | ry Indicators (minimum of two required) |
| Surface | Water (A1) | | Water-Stai | ned Lea | ves (B9) | | Surfa | ace Soil Cracks (B6) |
| High Wa | ter Table (A2) | | Aquatic Fa | una (B1 | 3) | | Drair | nage Patterns (B10) |
| X Saturation | on (A3) | | True Aquat | tic Plant | s (B14) | | Dry-S | Season Water Table (C2) |
| Water M | arks (B1) | | Hydrogen S | | | | | fish Burrows (C8) |
| | t Deposits (B2) | | Oxidized R | | | - | | ration Visible on Aerial Imagery (C9) |
| | osits (B3) | | Presence of | | , | , | | ted or Stressed Plants (D1) |
| | t or Crust (B4) | | Recent Iron | | | led Soils | | morphic Position (D2) |
| | osits (B5) on Visible on Aerial Ir | magam, (D | Thin Muck | | | | X FAC | -Neutral Test (D5) |
| | Vegetated Concave | | · — | | | | | |
| | | Ouriace (L | Other (Exp | iaiii iii i | cinarita) | | T | |
| Field Obser | | 2 | No. V | Donth (i | noboo): | | | |
| Surface Wat Water Table | | s | | | nches): _ nches): | | | |
| Saturation P | | s X | | | nches): | 0 | Wetland Hydrolo | gy Present? Yes X No |
| (includes car | | | · · · · · · · · · · · · · · · · · · · | - | | | 111111111111111111111111111111111111111 | <u></u> |
| | corded Data (stream | gauge, mo | onitoring well, aerial | l photos | , previous | inspec | tions), if available: | |
| | | | | | | | | |
| Remarks: | mala m | linalia - t - 1 | | | | | | |
| vvetiand hyd | rology is present and | indicated. | | | | | | |
| | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (| ORD) | City/Cour | nty: Chicago | o/Cook | Sampling D |)ate: 8/20 |)/2019 |
|--|-------------------|-----------------|----------------|---------------------------------|----------------------------------|-------------------------|-----------------|
| Applicant/Owner: City of Chicago | | <u> </u> | | State: II | _ Sampling P | oint: SE19-5 | 55 WET (basin2) |
| Investigator(s): Conor Makepeace, Kim Shannon, N | Mead & Hunt, Inc | . Section, T | ownship, Ra | ange: Section 17, | T40N, R12E | | |
| Landform (hillside, terrace, etc.): basin/retention | | | Local relief (| concave, convex, n | one): concave | | |
| Slope (%): <1% Lat: 41.95306555 | | Long: -8 | 87.90310479 |) | Datum: WGS | 84 | |
| Soil Map Unit Name: 805A - Orthents, clayey, near | lv level (Predomi | | | | classification: PEM | | |
| Are climatic / hydrologic conditions on the site typic | | | Yes X | • | o, explain in Remar | | |
| Are Vegetation, Soil, or Hydrology | | - | | | | | |
| Are Vegetation, Soil, or Hydrology_ | | | | | | · — | _ |
| SUMMARY OF FINDINGS – Attach site | | | | | | t feature: | s, etc. |
| Hydrophytic Vegetation Present? Yes X | No | Is the | Sampled A | rea | | | |
| Hydric Soil Present? Yes X | No | withir | n a Wetland | ? Yes_ | X No | _ | |
| Wetland Hydrology Present? Yes X | No | | | | | | |
| Remarks: Within large basin/retention area. | | | | | | | |
| VEGETATION III : "" | | | | | | | |
| VEGETATION – Use scientific names of | Absolute | Dominant | Indicator | 1 | | | |
| <u>Tree Stratum</u> (Plot size: | % Cover | Species? | Status | Dominance Tes | st worksheet: | | |
| 1 | | | | Number of Dom Are OBL, FACW | inant Species That /, or FAC: | 2 | (A) |
| 3. 4. | | | | | f Dominant Species | 2 | – ` / |
| 5. | | Total Cover | | Percent of Domi | inant Species That /. or FAC: | 100.0% | |
| Sapling/Shrub Stratum (Plot size: | | | | 76 652, 77.63 | ,, | | _(' ' ' ' |
| 1. | | | | Prevalence Ind | ex worksheet: | | |
| 2. | | | | Total % Co | ver of: M | ultiply by: | _ |
| 3 | | | | OBL species | 17 x 1 = | 17 | _ |
| 4 | | | | FACW species_ | 80 x 2 = | 160 | _ |
| 5 | | | | FAC species | 0 x 3 = | | _ |
| (5) | = | Total Cover | | FACU species | 0 x 4 = | | _ |
| Herb Stratum (Plot size: 5ft) | 40 | Vaa | EA (C) A (| UPL species _ Column Totals: | 0 x 5 = | | – |
| Phragmites australis Solidago sempervirens | 40 | Yes Yes | FACW FACW | - | 97 (A) ndex = B/A = | 1.82 | _(B) |
| Typha angustifolia | 15 | No | OBL | Frevalence II | idex - b/A - | 1.02 | _ |
| Lythrum salicaria | 2 | No | OBL | Hydrophytic Ve | egetation Indicator | | |
| 5. | <u> </u> | | | | est for Hydrophytic \ | | |
| 6. | | | | | nce Test is >50% | , ogotation | |
| 7. | | | | | ce Index is ≤3.0 ¹ | | |
| 8. | | | | | ogical Adaptations ¹ | (Provide su | upporting |
| 9. | | | | data in R | emarks or on a sep | arate sheet | .) |
| 10. | | | | Problemation | : Hydrophytic Veget | ation ¹ (Exp | lain) |
| Woody Vine Stratum (Plot size: | | Total Cover | | | dric soil and wetlan | | / must |
| 1. | ' | | | Hydrophytic | | | |
| 2. | | Total Cover | | Vegetation Present? | Yes X No | | |
| Demonstra (Include the Action of | | . 5.6 55761 | | | <u> </u> | | |
| Remarks: (Include photo numbers here or on a s Community Type: wet meadow HGM Type: depre | | nytic vegetatio | on is present | . Some bare soil pr | esent. | | |

SOIL Sampling Point: SE19-55 WET (basin2)

| | | to the depth | | | | ator or c | onfirm the absence o | f indicators.) |
|------------------------------------|--|----------------|---------------------|----------------|-------------------|------------------|--------------------------|--|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | x Feature % | Type ¹ | Loc ² | Texture | Remarks |
| 0-1 | | 100 | Color (Illoist) | | Турс | | | ixemaiks |
| | 10YR 3/1 | | | · —— | | | Loamy/Clayey | Edlar Sandala |
| 1-6 | 10YR 5/1 | 100 | | | | | Loamy/Clayey | full of pebbles |
| | | | | | | | | |
| | | . — — | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=Ce | oncentration, D=Dep | letion, RM=R | leduced Matrix, | MS=Masl | ced San | d Grains. | ² Location: | PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Indicators | s for Problematic Hydric Soils ³ : |
| Histosol | ` ' | | Sandy Gl | - | rix (S4) | | | Prairie Redox (A16) |
| | pipedon (A2) | | Sandy Re | | | | | langanese Masses (F12) |
| Black His | | | Stripped N | | 5) | | | Parent Material (F21) |
| | n Sulfide (A4) | | Dark Surf | ` , | 1 (54) | | | Shallow Dark Surface (F22) |
| Stratified 2 cm Mu | Layers (A5) | | Loamy Mi | | | | Other | (Explain in Remarks) |
| | ick (ATU) d Below Dark Surfac | o (A11) | Loamy Gl X Depleted | | | | | |
| · | ark Surface (A12) | = (A11) | Redox Da | • | , | | ³ Indicators | of hydrophytic vegetation and |
| | lucky Mineral (S1) | | Depleted | | . , |) | | nd hydrology must be present, |
| | icky Peat or Peat (S | 3) | Redox De | | , | , | | s disturbed or problematic. |
| | Layer (if observed): | - | | <u> </u> | (- / | T | | <u>'</u> |
| Type: | rock/gravel | | | | | | | |
| Depth (ir | | 6 | _ | | | | Hydric Soil Present? | ? Yes X No |
| Remarks: | · · · | | | | | <u> </u> | | |
| | el and pebbles pres | ent after top | 1 inch. Hydric so | oils are pr | esent. I | Hydric so | ils indicator Depleted N | Matrix (F3) is satisfied. |
| ŭ | | | • | | | • | · | , |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | GY | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | |
| Primary India | cators (minimum of o | one is require | d; check all that | apply) | | | Secondary | / Indicators (minimum of two require |
| Surface | Water (A1) | | X Water-Sta | ained Lea | ves (B9) |) | Surfac | ce Soil Cracks (B6) |
| | iter Table (A2) | | Aquatic F | | | | | age Patterns (B10) |
| X Saturation | , | | True Aqua | | | | | eason Water Table (C2) |
| | arks (B1) | | Hydrogen | | - | • | | sh Burrows (C8) |
| | nt Deposits (B2) | | Oxidized | • | | • | ` ' | ation Visible on Aerial Imagery (C9) |
| | oosits (B3) it or Crust (B4) | | Presence Recent Iro | | | - | | ed or Stressed Plants (D1) orphic Position (D2) |
| | osits (B5) | | Thin Mucl | | | illed Solls | ` ' | Neutral Test (D5) |
| | on Visible on Aerial I | magery (B7) | Gauge or | | ` ' | | <u> </u> | voditai 163t (D0) |
| | Vegetated Concave | 0 , , | | | |) | | |
| Field Obser | vations: | · · | | | | | | |
| Surface Wat | | es | No X | Depth (ir | nches): | | | |
| Water Table | | | No X | Depth (ir | - | | | |
| Saturation P | | | No | Depth (ir | nches): | 0 | Wetland Hydrolog | y Present? Yes X No |
| Gataration | resent? Ye | es X | | | | | | · |
| (includes cap | | es <u>X</u> | | | | | | |
| (includes cap | | | | al photos, | previou | ıs inspect | tions), if available: | |
| (includes cap Describe Re | oillary fringe) | | | al photos, | previou | s inspect | tions), if available: | |
| (includes cap Describe Re Remarks: | oillary fringe) corded Data (stream | gauge, mon | itoring well, aeria | | <u> </u> | | iions), if available: | |
| (includes cap Describe Re Remarks: | oillary fringe) | gauge, mon | itoring well, aeria | | <u> </u> | | cions), if available: | |

| Project/Site: Chicago O'Hare International Airport (ORD |) | City/Count | y: Chicago | /Cook | Sampling D | ate: 8/21/2019 |
|---|----------------|----------------------|--------------------------|--------------------------------------|---|---------------------|
| Applicant/Owner: City of Chicago | | - | | State: II | Sampling P | oint: SE19-55 WET |
| Investigator(s): Kim Shannon, Conor Makepeace, Meac | d & Hunt, Inc. | Section, To | wnship, Ra | nge: Section 17, | T40N, R12E | |
| Landform (hillside, terrace, etc.): basin, detention | | - Lo | ocal relief (c | oncave, convex, n | one): concave | |
| Slope (%): <1% Lat: 41.95181659 | | Long: -87 | 7.90322857 | | Datum: WGS | 84 |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly lev | | | | | | |
| Are climatic / hydrologic conditions on the site typical fo | | | es X | | o, explain in Remar | |
| Are Vegetation, Soil, or Hydrologysi | - | | | | | |
| Are Vegetation, Soil, or Hydrologyn | | | | plain any answers | · · · · · · · · · · · · · · · · · · · | |
| SUMMARY OF FINDINGS – Attach site ma | | | | - | · | t features, etc. |
| Wetland Hydrology Present? Yes X No | | | Sampled Ar a Wetland? | | X No | |
| Remarks: constructed detention basin | | | | | | |
| VEGETATION – Use scientific names of plar | |) i t | lu dia atau | | | |
| Tree Stratum (Plot size:) | | Dominant Species? | Indicator Status | Dominance Tes | st worksheet: | |
| 1 | | | | Number of Dom Are OBL, FACW | inant Species That /, or FAC: | 1 (A) |
| 3. 4. | | | | Total Number of Across All Strata | f Dominant Species a: | 1 (B) |
| 5. | | otal Cover | | Percent of Domi | inant Species That /, or FAC: | 100.0% (A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | | | |
| 1. | | | | Prevalence Ind | | ulation by a basic |
| 2 | | | | Total % Co OBL species | | ultiply by: 10 |
| 3 | | | | FACW species | | |
| 5. | | | | FAC species | | |
| | =To | otal Cover | | FACU species | 0 x 4 = | 0 |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 0 x 5 = | 0 |
| Solidago sempervirens | 75 | Yes | FACW | Column Totals: | 95 (A) | 190 (B) |
| 2. Lythrum salicaria | 10 | No | OBL | Prevalence Ir | ndex = B/A = | 2.00 |
| 3. Eupatorium serotinum | 10 | No | FAC | | | |
| 4. | | | | | egetation Indicator | |
| 5 | | | | | est for Hydrophytic \ | /egetation |
| 6. | | | | | nce Test is >50% ce Index is ≤3.0 ¹ | |
| 7. 8. | | | | | ogical Adaptations ¹ | (Provide supporting |
| | | | | | emarks or on a sep | |
| 10. | | | | | Hydrophytic Veget: | |
| Woody Vine Stratum (Plot size:) | 95 =To | otal Cover | | ¹ Indicators of hy | rdric soil and wetlan | d hydrology must |
| 1 | | | | Hydrophytic | SS GIOLGIDOG OF PIOL | |
| 2. | | | | Vegetation | | |
| | =To | otal Cover | | Present? | Yes X No | |
| Remarks: (Include photo numbers here or on a separa Community Type: wet meadow HGM Type: depression | , | hvtic vegeta | tion is prese | ent. | | |

SOIL Sampling Point: SE19-55 WET

| | | o the dept | | | | ator or c | confirm the absence of | of indicators.) |
|-------------------|---|--------------|--------------------------|---------------|-------------------------|------------------|---------------------------|---|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | x Featur % | es Type ¹ | Loc ² | Texture | Remarks |
| 0-4 | 10YR 3/1 | 100 | Color (moist) | | 1,700 | | Loamy/Clayey | loamy with clay |
| 4-16 | 10YR 3/1 | 50 | | | | | Loamy/Clayey | clay |
| 4-10 | 10YR 5/1 | 48 | 10YR 4/6 | | | | Loamy/Clayey | Prominent redox concentrations |
| | 1018 5/1 | 40 | 10114 4/0 | 2 | <u>C</u> | <u>M</u> | | Prominent redox concentrations |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | oncentration, D=Depl | etion, RM= | Reduced Matrix, M | 1S=Mas | ked Sand | d Grains | | PL=Pore Lining, M=Matrix. |
| Hydric Soil | | | | | | | | s for Problematic Hydric Soils ³ : |
| Histosol | | | Sandy Gle | | | | | Prairie Redox (A16) |
| | pipedon (A2) | | Sandy Red | | | | | Manganese Masses (F12) |
| | stic (A3) | | Stripped M | | 5) | | | Parent Material (F21) |
| | en Sulfide (A4) | | Dark Surfa | ` ' | 1 (54) | | | Shallow Dark Surface (F22) |
| | d Layers (A5) | | Loamy Mu | - | | | Other | (Explain in Remarks) |
| | ick (A10) | (111) | Loamy Gle | - | | | | |
| | d Below Dark Surface ark Surface (A12) | (A11) | X Depleted N X Redox Dar | | • | | ³ Indicators | s of hydrophytic vegetation and |
| | Mucky Mineral (S1) | | Depleted D | | | ١ | | nd hydrology must be present, |
| | icky Peat or Peat (S3 |) | Redox Dep | | ٠, | , | | s disturbed or problematic. |
| | | , | | 7,000,011 | - (1 0) | I | dillock | a distance of problematic. |
| Type: | Layer (if observed): | | | | | | | |
| Depth (i | nches): | | | | | | Hydric Soil Present | ? Yes X No |
| | | | | | | | Tryunc con r resent | 103 <u>X</u> 110 |
| Remarks: | ara propont. Hydria a | oilo indicat | ore Depleted Matri | v (E2) o | nd Dodo | v Dork S | urface (F6) are satisfie | d |
| riyunc sons | are present. Tryunc s | ons maicat | ors Depleted Matri | x (1 5) a | na rtead | x Daik C | dirace (i o) are satisfie | u. |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | OGY | | | | | | | |
| | drology Indicators: | | | | | | | |
| _ | cators (minimum of o | ne is requir | ed: check all that a | annly) | | | Secondary | y Indicators (minimum of two required |
| • | Water (A1) | no is requir | X Water-Stai | | ves (R9) | | | ce Soil Cracks (B6) |
| | ater Table (A2) | | Aquatic Fa | | , , | | | age Patterns (B10) |
| X Saturati | | | True Aqua | , | • | | | eason Water Table (C2) |
| Water M | larks (B1) | | Hydrogen | | , |) | | sh Burrows (C8) |
| Sedime | nt Deposits (B2) | | Oxidized R | hizosph | eres on l | Living R | oots (C3) Satura | ation Visible on Aerial Imagery (C9) |
| Drift De | posits (B3) | | Presence of | of Reduc | ced Iron (| (C4) | Stunte | ed or Stressed Plants (D1) |
| X Algal Ma | at or Crust (B4) | | Recent Iro | n Reduc | tion in Ti | lled Soil | s (C6) X Geom | norphic Position (D2) |
| Iron Dep | oosits (B5) | | Thin Muck | Surface | (C7) | | X FAC-1 | Neutral Test (D5) |
| | on Visible on Aerial Ir | 0 , (| <i>'</i> — | Well Dat | a (D9) | | | |
| Sparsely | / Vegetated Concave | Surface (B | 88)Other (Exp | lain in R | Remarks) | | | |
| Field Obser | vations: | | | | | | | |
| Surface Wa | ter Present? Yes | <u> </u> | | Depth (i | _ | | | |
| Water Table | | | | Depth (i | _ | | | |
| Saturation F | | sX_ | No | Depth (i | nches): _ | 0 | Wetland Hydrolog | y Present? Yes X No |
| | pillary fringe) | | | | | | 4:\ '£' - - - | |
| Describe Re | corded Data (stream | gauge, mo | nitoring well, aeria | pnotos | , previous | s inspec | uons), it avallable: | |
| Remarks: | | | | | | | | |
| | drology is present and | indicated. | | | | | | |
| ĺ | | | | | | | | |
| | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (ORD) |) | City/Cou | nty: Chicago | 'Cook | Sampling D | Date: 9/19 | 9/2019 |
|--|-----------------|----------------------|---------------------|-------------------------------|--|-------------|-----------|
| Applicant/Owner: City of Chicago | | | | State: | IL Sampling P | oint: SE1 | 9-120 UPL |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Mead | d & Hunt, Inc | _ Section, T | ownship, Rar | ige: Section 16 | , T40N, R12E | | |
| Landform (hillside, terrace, etc.): plain/flat | | I | Local relief (co | oncave, convex, | none): none | | |
| Slope (%):<1% Lat: 41.95740369 | | Long: | 87.88201936 | | Datum: WGS | 884 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly lev | el (Predomin | antly Non-h | ydric (6%)) | NWI | classification: | | |
| Are climatic / hydrologic conditions on the site typical for | this time of | year? | Yes | No X (If | no, explain in Rema | rks.) | |
| Are Vegetation X , Soil X , or Hydrology signature of the | gnificantly dis | | | | resent? Yes | | |
| Are Vegetation , Soil , or Hydrology na | | | | lain any answers | · | | |
| SUMMARY OF FINDINGS – Attach site map | | | g point lo | cations, trans | sects, importan | t feature | s, etc. |
| Hydrophytic Vegetation Present? Yes No | Х | Is the | Sampled Are | ea | | | |
| | X | | n a Wetland? | | No_ X | | |
| Wetland Hydrology Present? Yes No | Х | | | | | _ | |
| Remarks: Climatic/hydrologic conditions are not typical due to an | above avera | ge amount o | of rainfall durir | ng September 20 | 19. Tree removal an | d grubbing | in July |
| followed by grass seeding/meshing. | | | | | | | |
| VEGETATION – Use scientific names of plan | ts. | | | | | | |
| Tree Stratum (Plot size:) | | Dominant Species? | Indicator Status | Dominance Te | est worksheet: | | |
| 1 | | | | Number of Don Are OBL, FAC | ninant Species That W, or FAC: | 0 | (A) |
| 3. | | | | Total Number of | of Dominant Species | | _`` |
| 4 | | | | Across All Stra | เล. ninant Species That | 1 | (B) |
| | =1 | Total Cover | | Are OBL, FAC | • | 0.0% | (A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | | | | |
| 1 | | | | | dex worksheet: | | |
| 2 | | | | Total % C | | ultiply by: | _ |
| 3 | | | | OBL species FACW species | | | _ |
| 5. | | | | FAC species | | | _ |
| · | =1 | Γotal Cover | | FACU species | | | _ |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 5 x 5 = | 25 | _ |
| 1. Lolium perenne | 85 | Yes | FACU | Column Totals: | 100 (A) | 382 | — (B) |
| 2. Digitaria cognata | 5 | No | UPL | Prevalence | Index = B/A = | 3.82 | |
| 3. Elymus virginicus | 5 | No | FACW | | | | |
| 4. Typha angustifolia | 3 | No | OBL | Hydrophytic V | egetation Indicator | s: | |
| 5. Persicaria lapathifolia | 2 | No | FACW | 1 - Rapid T | Test for Hydrophytic \ | Vegetation | |
| 6 | | | | | ance Test is >50% | | |
| 7 | | | | | ence Index is ≤3.0 ¹ | | |
| 8 | | | | | ological Adaptations ¹ | | |
| 9 | | | | | Remarks or on a sep | | |
| 10 | | | | | ic Hydrophytic Veget | , , | • |
| Woody Vine Stratum (Plot size:) | 100 =1 | Total Cover | | | ydric soil and wetlan ess disturbed or prol | | y must |
| 1. | | | | Hydrophytic | | | |
| 2 | | | | Vegetation | | V | |
| | =1 | Total Cover | | Present? | Yes No | <u> </u> | |
| Remarks: (Include photo numbers here or on a separa | , | tion is not n | resent Solida | ao sempervirens | is also present | | |

SOIL Sampling Point: SE19-120 UPL

| | | to the dep | | | | tor or c | onfirm the absence of | of indicators.) | |
|-------------------------|-------------------------|-------------|---------------------------------------|-----------|-------------------|------------------|------------------------|--------------------------------|-----------|
| Depth | Matrix | | | (Feature | | . 2 | _ | | |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | <u>%</u> | Type ¹ | Loc ² | Texture | Remarks | |
| 0-4 | 7.5YR 3/1 | 100 | | | | | Loamy/Clayey | loamy clay | |
| 4-22 | 7.5YR 3/1 | 100 | | | | | Loamy/Clayey | clay loam | |
| 22-24 | 10YR 4/1 | 100 | | | | | Loamy/Clayey | clay loam | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion, RM= | Reduced Matrix, M | IS=Masl | ed Sand | Grains | ² Location: | : PL=Pore Lining, M=Matrix. | |
| Hydric Soil | | • | · · · · · · · · · · · · · · · · · · · | | | | | s for Problematic Hydric So | ils³: |
| Histosol | (A1) | | Sandy Gley | yed Mati | rix (S4) | | Coas | t Prairie Redox (A16) | |
| Histic Ep | ipedon (A2) | | Sandy Red | ox (S5) | | | Iron-N | Manganese Masses (F12) | |
| Black His | stic (A3) | | Stripped M | atrix (S6 | 6) | | Red F | Parent Material (F21) | |
| Hydroge | n Sulfide (A4) | | Dark Surfa | ce (S7) | | | Very | Shallow Dark Surface (F22) | |
| Stratified | Layers (A5) | | Loamy Mu | cky Mine | eral (F1) | | Other | (Explain in Remarks) | |
| 2 cm Mu | ck (A10) | | Loamy Gle | yed Mat | rix (F2) | | | | |
| Depleted | Below Dark Surface | (A11) | Depleted M | latrix (F | 3) | | | | |
| Thick Da | rk Surface (A12) | | Redox Dar | k Surfac | e (F6) | | ³ Indicator | s of hydrophytic vegetation an | d |
| Sandy M | ucky Mineral (S1) | | Depleted D | ark Sur | face (F7) | | wetla | nd hydrology must be present | , |
| 5 cm Mu | cky Peat or Peat (S3 |) | Redox Dep | ressions | s (F8) | | unles | s disturbed or problematic. | |
| Restrictive I | _ayer (if observed): | | | | | | | | |
| Type: | | | | | | | | | |
| Depth (ir | iches): | | <u> </u> | | | | Hydric Soil Present | ? Yes | No_X_ |
| Remarks: | · | | | | | | | | |
| | are not present. Does | not meet | hydric soils criteria | . Previo | us visit ir | July ob | served mesh with see | eding after tree removal. | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | |
| Primary India | cators (minimum of o | ne is requi | red; check all that a | apply) | | | Secondar | y Indicators (minimum of two | required) |
| Surface | Water (A1) | | Water-Stai | ned Lea | ves (B9) | | Surfa | ce Soil Cracks (B6) | |
| High Wa | ter Table (A2) | | Aquatic Fa | una (B1 | 3) | | Drain | age Patterns (B10) | |
| Saturatio | n (A3) | | True Aquat | ic Plant | s (B14) | | Dry-S | Season Water Table (C2) | |
| Water M | arks (B1) | | Hydrogen S | Sulfide C | Odor (C1) | | Crayf | ish Burrows (C8) | |
| | t Deposits (B2) | | Oxidized R | | | U | ` ′ | ation Visible on Aerial Imager | y (C9) |
| | osits (B3) | | Presence of | | , | , | | ed or Stressed Plants (D1) | |
| | t or Crust (B4) | | Recent Iron | | | led Soils | ` ' | norphic Position (D2) | |
| | osits (B5) | (5) | Thin Muck | | | | FAC- | Neutral Test (D5) | |
| | on Visible on Aerial Ir | | | | | | | | |
| | Vegetated Concave | Surface (E | 38)Other (Exp | iain in R | emarks) | | 1 | | |
| Field Obser | | | | | | | | | |
| Surface Wat | | s | | | nches): | | | | |
| Water Table | | s | | | nches): _ | | l | | |
| Saturation P | | s | No X | Depth (ii | nches): _ | | Wetland Hydrolog | gy Present? Yes | No X |
| (includes cap | | aauaa ~= | nitoring wall assist | nhotos | provious | inonac | tions) if available: | | |
| Describe Ke | corded Data (stream | yauge, mo | niitoring well, aerlal | priotos, | , previous | inspec | uons), ii avaliable: | | |
| Remarks: | | | | | | | | | |
| | rology is neither pres | ent nor inc | licated. | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (C | PRD) | City/Cou | nty: Chicag | o/Cook or DuPage | Sampling Date | e: <u>9/19/2019</u> |
|---|---------------------|--|---------------------|--|---------------------|---------------------|
| Applicant/Owner: City of Chicago | | | | State: IL | Sampling Point | t: SE19-120 WET |
| Investigator(s): Brauna Hartzell, Conor Makepeace, N | √lead & Hunt, Ir | nc. Section, | Гownship, Ra | ange: Section 16, T40N | i, R12E | |
| Landform (hillside, terrace, etc.): shallow basin | | | Local relief (| concave, convex, none): | concave | |
| Slope (%): <1% Lat: 41.95746304 | | Long: - | 87.88204706 | 3 | Datum: WGS84 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly | level (Predom | | | | fication: PEM | |
| Are climatic / hydrologic conditions on the site typica | | | Yes | | - |) |
| Are Vegetation X , Soil X , or Hydrology | | | | | | No X |
| | | | | cplain any answers in Re | | <u> </u> |
| Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site I | | | | | • | eatures. etc. |
| | No | - | Sampled A | · | , , | |
| | No | | n a Wetland | | No | |
| Wetland Hydrology Present? Yes X | No | | | | | |
| Remarks: Climatic/hydrologic conditions are not typical due to earlier tree removal. Area not meshed. | an above aver | rage amount | of rainfall dur | ing September 2019. Co | ottonwood stumps | present from |
| VEGETATION – Use scientific names of p | olants. | | | | | |
| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test wo | rksheet: | |
| 1. 2. | | | \equiv | Number of Dominant Are OBL, FACW, or F | • | 1 (A) |
| 3. 4. | | | | Total Number of Dom Across All Strata: | inant Species | 1 (B) |
| 5. | | =Total Cover | | Percent of Dominant Are OBL, FACW, or F | • | 100.0% (A/B) |
| Sapling/Shrub Stratum (Plot size: | _) | | | Duning language language | | |
| 1 2. | | | | Prevalence Index we Total % Cover of | | ply by: |
| 3. | | | | | 0 x 1 = | 80 |
| 4. | | | | · - | 0 x2= | 20 |
| 5. | | | | | 0 x 3 = | 30 |
| | | =Total Cover | | | x 4 = | 0 |
| Herb Stratum (Plot size: 5ft) | | | | UPL species (| x 5 = | 0 |
| Typha angustifolia | 80 | Yes | OBL | Column Totals: 10 | 00 (A) | 130 (B) |
| 2. Cyperus esculentus | 10 | No | FACW | Prevalence Index | = B/A = <u>1.</u> | .30 |
| 3. Populus deltoides | 10 | No | FAC | | | |
| 4 | | | | Hydrophytic Vegeta | | |
| 5 | | | | X 1 - Rapid Test for | | etation |
| 6. | | | | X 2 - Dominance To | | |
| 7. | | | | X 3 - Prevalence Ind 4 - Morphological | | ravida supporting |
| 8. 9. | | | | l <u>—</u> | ks or on a separat | |
| 10. | | | | Problematic Hydr | · | |
| 10 | 100 | =Total Cover | | ¹ Indicators of hydric s | | ` ' ' |
| Woody Vine Stratum (Plot size: | | rotal covol | | be present, unless dis | | |
| 1 2. | | | | Hydrophytic | | |
| ۷. | | =Total Cover | | Vegetation Present? Yes | X No | |
| | | rotal Gover | | 110001111 165 | | |
| Remarks: (Include photo numbers here or on a sep Community Type: wet meadow HGM Type: depressional | , | etation is prese | ent. There is a | change of 1-2feet in elevat | on over 30 ft betwe | een data points. |

SOIL Sampling Point: SE19-120 WET

| Profile Desc | cription: (Describ | e to the dep | th needed to doc | ument t | he indica | tor or c | onfirm the absence | of indicators.) |
|------------------------|----------------------|----------------|----------------------|------------|-------------------|------------------|-----------------------|---|
| Depth | Matrix | | Redo | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-10 | 7.5YR 2.5/1 | 100 | | | | | Loamy/Clayey | silty clay loam |
| 10-16 | 7.5YR 2.5/1 | 98 | 7.5YR 5/6 | 2 | С | М | | Prominent redox concentrations |
| 16-22 | 10YR 4/2 | 95 | 10YR 5/6 | 5 | С | M | | Prominent redox concentrations |
| | | | | | <u> </u> | | | above 2 layers are clay loam |
| | | | | · —— | | | | above 2 layers are clay loans |
| | | | | | | | | |
| <u> </u> | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=C | oncentration, D=D | epletion, RM= | Reduced Matrix, | MS=Mas | ked Sand | d Grains. | | : PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Indicator | s for Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Sandy Gle | eyed Mat | rix (S4) | | Coas | t Prairie Redox (A16) |
| Histic Ep | oipedon (A2) | | Sandy Re | , , | | | | Manganese Masses (F12) |
| Black Hi | ` ' | | Stripped N | , | 5) | | | Parent Material (F21) |
| | n Sulfide (A4) | | Dark Surf | | | | | Shallow Dark Surface (F22) |
| | d Layers (A5) | | Loamy Mu | - | | | Other | r (Explain in Remarks) |
| | ıck (A10) | | Loamy Gl | - | | | | |
| | d Below Dark Surfa | ace (A11) | Depleted | , | , | | 2 | |
| | ark Surface (A12) | | X Redox Da | | ` ' | | | s of hydrophytic vegetation and |
| I — ' | lucky Mineral (S1) | | Depleted | | , , | | | nd hydrology must be present, |
| 5 cm Mu | ıcky Peat or Peat (| S3) | Redox De | pression | s (F8) | | unles | s disturbed or problematic. |
| Restrictive | Layer (if observe | d): | | | | | | |
| Type: | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Present | ? Yes X No No |
| | . (Midwest suppler | | tyunic solis are μι | esent. H | yunc son | s mulcat | OIS THICK DAIK SUITAC | e (A12) and Redox Dark Surface (F6) |
| HYDROLO | OGY | | | | | | | |
| Wetland Hy | drology Indicator | s: | | | | | | |
| Primary Indi | cators (minimum c | f one is requi | red; check all that | apply) | | | Secondar | ry Indicators (minimum of two required) |
| Surface | Water (A1) | | Water-Sta | ained Lea | ives (B9) | | Surfa | ice Soil Cracks (B6) |
| High Wa | ater Table (A2) | | Aquatic F | auna (B1 | 3) | | Drain | age Patterns (B10) |
| Saturatio | on (A3) | | True Aqua | | , , | | | Season Water Table (C2) |
| Water M | larks (B1) | | Hydrogen | | | | | fish Burrows (C8) |
| | nt Deposits (B2) | | Oxidized I | | | _ | · · · — | ration Visible on Aerial Imagery (C9) |
| | posits (B3) | | Presence | | | | | red or Stressed Plants (D1) |
| | at or Crust (B4) | | Recent Iro | | | lled Soils | ` ' | norphic Position (D2) |
| | oosits (B5) | (5- | Thin Muck | | | | X FAC- | Neutral Test (D5) |
| | on Visible on Aeria | 0 , (| <i>'</i> | | | | | |
| Sparsely | / Vegetated Conca | ive Surface (E | 38)Other (Ex | plain in F | (emarks | | , | |
| Field Obser | | | | | | | | |
| Surface Wat | | Yes | No X | | nches): _ | | | |
| Water Table | | Yes | No X | | nches): | | Wadan | |
| Saturation P | | Yes | No X | Depth (i | ncnes): _ | | Wetland Hydrolog | gy Present? Yes X No |
| | pillary fringe) | m acuse === | unitoring wall as a | al nha+ | provi | inar - | tions) if available: | |
| резспре Ке | corded Data (strea | ını gauge, mo | mitoring well, aeria | ai pnotos | , previous | s inspec | uons), ii avallable: | |
| Remarks: | | · | | | | | | |
| Wetland hyd | Irology is indicated | - | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Investigator(s): Brauna Hartzell, Conor Makepeace, Mead & Hunt, Inc. Landform (hillside, terrace, etc.): toeslope Local relief (concave, convex, none): flat Slope (%): <1% Lat: 41.96252168 Long: -87.87778066 Datum: Soil Map Unit Name: 805A - Orthents, clayey, nearly level (Predominantly Non-hydric (6%)) Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation, SoilX , or Hydrology significantly disturbed? Are Vegetation, SoilX , or Hydrology naturally problematic? Find the Vegetation, SoilX , or Hydrology naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important of the Vegetation Present? Yes No Ves No Ves No Ves No Ves No | : WGS84 : Remarks.) s X N) ortant fea | do | _ |
|--|---|---------------|----------|
| Landform (hillside, terrace, etc.): toeslope Local relief (concave, convex, none): flat Slope (%): <1% Lat: 41.96252168 Long: -87.87778066 Datum: Soil Map Unit Name: 805A - Orthents, clayey, nearly level (Predominantly Non-hydric (6%)) NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Are Vegetation , Soil X , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, importantly Summary of Present? Yes X No X (If needed, explain any answers in Remarks.) Hydrophytic Vegetation Present? Yes X No X (If needed, explain any answers in Remarks.) Remarks: Climatic/hydrology Present? Yes X No X (If needed, explain any answers in Remarks.) Remarks: Climatic/hydrologic conditions are not typical due to an above average amount of rainfall during September 2019. Apparently some construction activities and fill for service road off Mannhelm Rd. Data point taken in old wetland SE01. VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 30 ft) Absolute Dominant Indicator Species? Status Number of Dominant Species Are OBL, FACW, or FAC: Are OBL, FACW, or FAC: Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: 15ft) 1. Rhamnus cathartica 20 Yes FAC Prevalence Index workshee Are OBL, FACW, or FAC: Total Number of Dominant Species 5 FAC OBL, Species 5 FACW Species 5 FACW Species 110 FA | : WGS84 : Remarks.) s X N) ortant fea | atures | _ |
| Slope (%): _ <1% | Remarks.) S X N Ortant fea | atures | _ |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly level (Predominantly Non-hydric (6%)) Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation, SoilX_, or Hydrology significantly disturbed? Are 'Normal Circumstances' present? Yes Are 'Normal Circumstances' present? Yes Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important in the second of the sent? Yes No Is the Sampled Area within a Wetland? Yes No Yes No Within a Wetland? Yes No Yes Yes | Remarks.) S X N Ortant fea | atures | _ |
| Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Are Vegetation , Soil X , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important properties of the properties of t | Remarks.) S X N Ortant fea | atures | _ |
| Are Vegetation , Soil X , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important learning properties of the sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes X No X | s X N) portant fea | atures | _ |
| Are Vegetation , Soil X , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important learning properties of the sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes X No X | s X N) portant fea | atures | _ |
| Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important locations | ortant fea | atures | _ |
| Hydrophytic Vegetation Present? Yes X No | <u> </u> | | s, etc. |
| Hydric Soil Present? Yes X No X Within a Wetland? Yes No Wetland Hydrology Present? Yes No X No X Within a Wetland? Yes No X No | | by | |
| Remarks: Climatic/hydrologic conditions are not typical due to an above average amount of rainfall during September 2019. Apparentl some construction activities and fill for service road off Mannheim Rd. Data point taken in old wetland SE01. VEGETATION - Use scientific names of plants. | | by | |
| Remarks: Climatic/hydrologic conditions are not typical due to an above average amount of rainfall during September 2019. Apparentl some construction activities and fill for service road off Mannheim Rd. Data point taken in old wetland SE01. VEGETATION – Use scientific names of plants. Tree Stratum | y impacted | by | |
| Some construction activities and fill for service road off Mannheim Rd. Data point taken in old wetland SE01. VEGETATION — Use scientific names of plants. Absolute Dominant Indicator Species? Status Status Number of Dominant Species Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: Across All Strata: Percent of Dominant Species Across All Strata: Percent | ly impacted | by | |
| Tree Stratum(Plot size: 30 ft)Absolute % Cover Species?Dominant Species?Indicator Species?1. Rhamnus cathartica85YesFACNumber of Dominant Species Are OBL, FACW, or FAC:3. | | | |
| Tree Stratum(Plot size: 30 ft)Absolute % Cover Species?Dominant Species?Indicator Species?1. Rhamnus cathartica85YesFACNumber of Dominant Species Are OBL, FACW, or FAC:3. | | | |
| 1. Rhamnus cathartica 2. Sapling/Shrub Stratum 1. Rhamnus cathartica 2. Sapling/Shrub Stratum 2. Sapling/Shrub Cover 3. Sapling/Shrub Stratum 3. Sapling/Shrub Stratum 4. Sapling/Shrub Stratum 5. Sapling/Shrub Stratum 6. Sapling/Shrub Stratum 7. Sapling/Shrub Stratum 8. Sapling/Shrub Stratum 8. Sapling/Shrub Stratum 9. Sapling/Shrub Stratum 1. Rhamnus cathartica 9. Sapling/Shrub Stratum 9. Sapling/Shrub Stratum 1. Rhamnus cathartica 9. Yes FAC 9. Fevalence Index workshee 9. Total % Cover of: 9. OBL species 9. Sapling/Shrub Stratum 9. Sapling | | | |
| 2. Are OBL, FACW, or FAC: 3. Total Number of Dominant S Across All Strata: 5. Percent of Dominant Species Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: 15ft) 1. Rhamnus cathartica 20 Yes FAC Prevalence Index worksheet 2. Total % Cover of: 3. OBL species 5 4. FACW species 10 5. FAC species 107 | t: | | |
| 3 | s That | 3 | (A) |
| 5. 85 =Total Cover Percent of Dominant Species Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: 15ft) 1. Yes FAC Prevalence Index workshee 2. 3. Total % Cover of: OBL species 5 FACW species 10 5. FAC species 107 | pecies | | |
| 85 | | 4 | _(B) |
| Sapling/Shrub Stratum (Plot size: 15ft) 20 Yes FAC Prevalence Index workshee 2. Total % Cover of: OBL species 5 4. FACW species 10 5. FAC species 107 | | ' 5.0% | (A/B) |
| 1. Rhamnus cathartica 20 Yes FAC Prevalence Index workshee 2. Total % Cover of: 3. OBL species 5 4. FACW species 10 5. FAC species 107 | | 0.070 | _(,,,,,) |
| 3. OBL species 5 4. FACW species 10 5. FAC species 107 | et: | | |
| 4. FACW species 10 5. FAC species 107 | Multiply | y by: | |
| 5. FAC species 107 | x 1 = | 5 | _ |
| | x 2 = | 20 | _ |
| | x 3 = | 321 | |
| 20 =Total Cover FACU species30 | x 4 = | 120 | _ |
| Herb Stratum (Plot size: 5ft) UPL species 0 | x 5 = | 0 | _ |
| 1. Glechoma hederacea 30 Yes FACU Column Totals: 152 (A | (A) | 466 | (B) |
| 2. Solidago sempervirens 10 Yes FACW Prevalence Index = B/A = | 3.07 | 7 | _ |
| 3. Persicaria hydropiper 5 No OBL | | | |
| 4. Rhamnus cathartica 2 No FAC Hydrophytic Vegetation Ind | licators: | | |
| 5 1 - Rapid Test for Hydrop | phytic Vege | tation | |
| 6. X 2 - Dominance Test is >5 | 50% | | |
| 7 3 - Prevalence Index is ≤ | :3.0 ¹ | | |
| 8. 4 - Morphological Adapta | ations ¹ (Prov | vide su | pporting |
| 9. data in Remarks or on | ı a separate | sheet) | |
| 10. Problematic Hydrophytic | Vegetation | ı¹ (Expla | ain) |
| Woody Vine Stratum (Plot size:) 47 =Total Cover 1 Indicators of hydric soil and be present, unless disturbed | wetland hyd | | must |
| | or problems | | |
| 2 Hydrophytic Vegetation | or problema | | |
| =Total Cover Present? Yes X | or problema | | |
| Remarks: (Include photo numbers here or on a separate sheet.) | or problema | | |

SOIL Sampling Point: SE19-125 UPL

| | | to the depti | | | | ator or c | onfirm the absence of | of indicators.) | | |
|-------------------|---------------------------------|----------------|------------------------|---------------|-------------------------|------------------|-------------------------|------------------------------------|--------------|-------------|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | x Featur % | es Type ¹ | Loc ² | Texture | | Remarks | |
| 0-5 | 10YR 3/1 | 100 | Color (moist) | | Турс | | Loamy/Clayey | | clay loam | |
| 5-10 | 10YR 3/1 | 70 | | | | | Loamy/Clayey | | clay loam | |
| 3-10 | | 25 | 10VD 4/6 | | | | Loanly/Clayey | | • | atrations |
| 40.40 | 10YR 4/2 | | 10YR 4/6 | 5 | <u>C</u> | <u>M</u> | | | redox concer | ntrations |
| 10-12 | 10YR 2/1 | 100 | | | | | Loamy/Clayey | | clay loam | |
| | | | | | | | | | | |
| | | . — – | | | | | | | | |
| | | | | | | | | | | |
| | oncentration, D=Dep | letion, RM=I | Reduced Matrix, N | /IS=Masl | ked Sand | d Grains. | | PL=Pore Linir | | |
| Hydric Soil | | | 0 | | -i- (O.4) | | | s for Problema | - | Soils': |
| Histosol | ` , | | Sandy Gle | - | rix (54) | | | t Prairie Redox | | |
| | oipedon (A2) | | Sandy Red | | 21 | | | //anganese Mas Parent Material | | |
| Black Hi | n Sulfide (A4) | | Stripped M Dark Surfa | |)) | | | Shallow Dark S | , | |
| | l Layers (A5) | | Loamy Mu | ` ' | aral (E1) | | | : (Explain in Re | | |
| | ick (A10) | | Loamy Gle | • | , , | | | (Explain in Ne | iliaiks) | |
| | d Below Dark Surface | e (A11) | Depleted N | • | , , | | | | | |
| | ark Surface (A12) | · (/ · · · / | X Redox Dar | | | | ³ Indicators | s of hydrophytic | vegetation a | and |
| | lucky Mineral (S1) | | Depleted D | | , , |) | | nd hydrology m | • | |
| 5 cm Mu | icky Peat or Peat (S | 3) | Redox Dep | oression | s (F8) | • | | s disturbed or p | | • |
| Restrictive | Layer (if observed): | : | | | | | | | | |
| Type: | , | | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Present | ? | Yes X | No |
| Remarks: | | | | | | ļ. | | | | |
| | are present. Hydric | soils indicate | or Redox Dark Su | rface (F6 | 6) is satis | sfied. | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| HYDROLO | GY | | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | | |
| Primary India | cators (minimum of o | one is require | ed; check all that a | apply) | | | <u>Secondar</u> | y Indicators (m | inimum of tw | o required) |
| Surface | Water (A1) | | Water-Stai | ined Lea | ves (B9) | 1 | Surfa | ce Soil Cracks | (B6) | |
| | iter Table (A2) | | Aquatic Fa | | | | | age Patterns (E | | |
| Saturation | , | | True Aqua | | ` , | | ′ | eason Water T | ` , | |
| | arks (B1) | | Hydrogen | | • | • | | ish Burrows (C | • | (00) |
| | nt Deposits (B2) | | Oxidized F | • | | • | ` ' | ation Visible on | J | ery (C9) |
| | oosits (B3) it or Crust (B4) | | Presence of Recent Iro | | | ` ' | | ed or Stressed norphic Positior | | |
| | osits (B5) | | Thin Muck | | | illed Soli. | ` ' — | Neutral Test (D | ` ' | |
| | on Visible on Aerial I | magery (B7) | | | ` ' | | <u> </u> | rtourur root (D | 0) | |
| | Vegetated Concave | 0, , , | | | | | | | | |
| Field Obser | vations: | | | | | | | | | |
| Surface Wat | | es | No X | Depth (i | nches): | | | | | |
| Water Table | | | | Depth (i | _ | | | | | |
| Saturation P | resent? Ye | es | No X | Depth (i | nches): | | Wetland Hydrolog | y Present? | Yes | No X |
| (includes cap | oillary fringe) | | | | _ | | | | | |
| Describe Re | corded Data (stream | gauge, mor | nitoring well, aeria | l photos | , previou | s inspec | tions), if available: | | | |
| Danisid | | | | | | | | | | |
| Remarks: | | | | | | | | | | |
| Wetland hud | rology is neither pro- | sent nor indi | cated | | | | | | | |
| Wetland hyd | rology is neither pre- | sent nor indi | cated. | | | | | | | |

| During HOite Obigon Oll I am Intermedian of Aircont (O | DD) | 0:4-/0 | | - /O I D- D | O B | 0/00 | (0040 |
|---|---------------------|-------------------|---------------------|---|--------------------|-----------|-------------------------|
| Project/Site: Chicago O'Hare International Airport (O | RD) | City/Cou | nty: Cnicago | o/Cook or DuPage | Sampling Date: | | /2019 |
| Applicant/Owner: City of Chicago | lood O I lunt In | - Cootion 1 | Fournahin Da | State: IL | Sampling Point: | SE19- | -125 WET |
| Investigator(s): Brauna Hartzell, Conor Makepeace, N | ieau & Huiii, iii | | | - | | | |
| Landform (hillside, terrace, etc.): basin | | | • | concave, convex, none): | | | |
| Slope (%): <1% Lat: 41.96244715 | | | 87.87782308 | | Datum: WGS84 | | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly | | | | | | | |
| Are climatic / hydrologic conditions on the site typical | | - | Yes | | | | |
| Are Vegetation, Soil, or Hydrology | _ | | | | <u> </u> | 10 | _ |
| Are Vegetation, Soil, or Hydrology | _naturally prob | lematic? (| If needed, ex | cplain any answers in Rer | narks.) | | |
| SUMMARY OF FINDINGS – Attach site n | nap showin | g samplin | g point lo | ocations, transects, | important fe | atures | s, etc. |
| Hydric Soil Present? Yes X | No No | | Sampled A | | No | | |
| Remarks: Climatic/hydrologic conditions are not typical due to | | age amount o | of rainfall dur | ing September 2019. | | | |
| VEGETATION – Use scientific names of p | | | | | | | |
| <u>Tree Stratum</u> (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test wor | ksheet: | | |
| Rhamnus cathartica 2. | 25 | Yes | FAC | Number of Dominant S Are OBL, FACW, or FA | Species That | 3 | (A) |
| 3. 4. | | | | Total Number of Domi Across All Strata: | nant Species | 3 | - ` <i>'</i> (B) |
| 5. | 25 = | Total Cover | | Percent of Dominant S Are OBL, FACW, or FA | • | 00.0% | (A/B) |
| Sapling/Shrub Stratum (Plot size: 15ft | _) | | | | | | |
| Rhamnus cathartica 2. | 5 | Yes | <u>FAC</u> | Prevalence Index wo Total % Cover of: | | v bv | |
| 3. | | | | OBL species 0 | | 0 0 | _ |
| 4. | | | | FACW species 70 | | 140 | _ |
| 5. | | | | FAC species 30 | | 90 | _ |
| | 5 = | Total Cover | | FACU species 0 | x 4 = | 0 | |
| Herb Stratum (Plot size: 5ft) | | | | UPL species 0 | x 5 = | 0 | _ |
| Phragmites australis | 70 | Yes | FACW | Column Totals: 100 | `´ | 230 | _(B) |
| 2. | | | | Prevalence Index = | B/A = 2.3 | 0 | _ |
| 3. | | | | Hadaaahada Vanatad | ! !! 1 | | |
| 4 | | | | Hydrophytic Vegetati | | . 4 . 4 | |
| 5. 6. | | | | 1 - Rapid Test for X 2 - Dominance Te | | etation | |
| 7 | | | | X 3 - Prevalence Ind | | | |
| 8. | | | | 4 - Morphological | | vide sui | pporting |
| 9. | | | | l — | s or on a separate | | |
| 10. | | | | Problematic Hydro | phytic Vegetation | n¹ (Expla | ain) |
| Woody Vine Stratum (Plot size: | | Total Cover | | ¹ Indicators of hydric so be present, unless dist | il and wetland hy | drology | |
| 1. 2. | | | | Hydrophytic Vegetation | · | | |
| | | | | Vegetation | | | |

SOIL Sampling Point: SE19-125 WET

| | cription: (Describe | to the dep | | | | ator or o | confirm the | absence | of indicators.) | | |
|-------------------------|---|-------------|-----------------------|-----------|-------------------|------------------|------------------------------------|------------------------|--|--|--|
| Depth | Matrix | 0/ | | K Featur | | Loc ² | Tand | | Damada | | |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | <u>%</u> | Type ¹ | LOC | Text | | Remarks . | | |
| 0-14 | 7.5YR 2.5/1 | 100 | | | | | Loamy/0 | | clay | | |
| 14-20 | 10YR 5/2 | 95 | 10YR 5/6 | 5 | <u>C</u> | <u>M</u> | Loamy/0 | Clayey | Prominent redox concentrations | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion RM: | Reduced Matrix M | IS=Masl | ked Sand | Grains | | ² I ocation | : PL=Pore Lining, M=Matrix. | | |
| Hydric Soil | | ouon, run | rtoddodd Watrix, W | io ivido | tou ourie | - Cramo | • | | rs for Problematic Hydric Soils ³ : | | |
| Histosol | | | Sandy Gle | ved Mat | rix (S4) | | | | t Prairie Redox (A16) | | |
| | ipedon (A2) | | Sandy Red | | () | | | | Manganese Masses (F12) | | |
| Black Hi | | | Stripped M | | 6) | | | | Parent Material (F21) | | |
| — Hydroge | n Sulfide (A4) | | Dark Surfa | • | , | | | | Shallow Dark Surface (F22) | | |
| Stratified | Layers (A5) | | Loamy Mu | cky Mine | eral (F1) | | | Othe | r (Explain in Remarks) | | |
| 2 cm Mu | ck (A10) | | Loamy Gle | yed Mat | rix (F2) | | | | | | |
| Depleted | l Below Dark Surface | (A11) | Depleted N | latrix (F | 3) | | | | | | |
| X Thick Da | rk Surface (A12) | | Redox Dar | k Surfac | e (F6) | | | ³ Indicator | s of hydrophytic vegetation and | | |
| Sandy M | ucky Mineral (S1) | | Depleted D | ark Sur | face (F7) |) | wetland hydrology must be present, | | | | |
| 5 cm Mu | cky Peat or Peat (S3 |) | Redox Dep | ression | s (F8) | | unless disturbed or problematic. | | | | |
| Restrictive I | _ayer (if observed): | | | | | | | | | | |
| Type: | | | | | | | | | | | |
| Depth (ir | Depth (inches): Hydric Soil Present? Yes X No | | | | | | | | | | |
| Remarks: | | | | | | • | | | | | |
| Hydric soils | are present. Hydric s | oils indica | tor Thick Dark Surf | ace (A1 | 2) is satis | sfied. | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| HYDROLO | iGY | | | | | | | | | | |
| | | | | | | | | | | | |
| | drology Indicators: cators (minimum of o | no ie rogui | rod: chock all that | annly) | | | | Soconda | ry Indicators (minimum of two required) | | |
| | Water (A1) | ne is requi | Water-Stai | | ves (RQ) | | | | ace Soil Cracks (B6) | | |
| | ter Table (A2) | | Aquatic Fa | | , , | | | | nage Patterns (B10) | | |
| Saturation | ` , | | True Aqua | | - | | | | Season Water Table (C2) | | |
| | arks (B1) | | Hydrogen | | , , |) | | | fish Burrows (C8) | | |
| | t Deposits (B2) | | Oxidized R | | | | oots (C3) | | ration Visible on Aerial Imagery (C9) | | |
| | osits (B3) | | Presence of | | | _ | , | | ted or Stressed Plants (D1) | | |
| | t or Crust (B4) | | Recent Iron | n Reduc | tion in Ti | lled Soil | s (C6) | | norphic Position (D2) | | |
| Iron Dep | osits (B5) | | Thin Muck | Surface | (C7) | | | X FAC- | Neutral Test (D5) | | |
| Inundation | on Visible on Aerial Ir | magery (B | 7) Gauge or \ | Vell Dat | a (D9) | | | | | | |
| Sparsely | Vegetated Concave | Surface (E | 38)Other (Exp | lain in R | temarks) | | | | | | |
| Field Obser | vations: | | | | | | | | | | |
| Surface Wat | er Present? Ye | s | No X | Depth (i | nches): _ | | | | | | |
| Water Table | | s | | | nches): | | | | | | |
| Saturation P | | s | No X | Depth (i | nches): | | Wetland | l Hydrolog | gy Present? Yes X No No | | |
| (includes cap | | | | | | | 1 | | | | |
| Describe Re | corded Data (stream | gauge, mo | onitoring well, aeria | photos | , previous | s inspec | tions), if ava | ilable: | | | |
| Remarks: | | | | | | | | | | | |
| | rology is indicated. H | eavy rainf | all night before but | no stano | ding wate | r or satu | uration. | | | | |
| | | • | - | | - | | | | | | |
| | | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (C | PRD) | City/Cou | ınty: <u>Chicago</u> | o/Cook | Sampling Date: | 9/20/2019 |
|---|-------------------|--------------|----------------------|--|--------------------------------|--|
| Applicant/Owner: City of Chicago | | | | | Sampling Point: | SE 62 UPL |
| Investigator(s): Brauna Hartzell, Conor Makepeace, N | /lead & Hunt, Inc | Section, | Township, Ra | ange: Section 16, T40N, | R12E | |
| Landform (hillside, terrace, etc.): island/peninsula | | | Local relief (d | concave, convex, none): co | onvex | |
| Slope (%):<1%_ Lat: 41.95954979 | | Long: | -87.88103459 |)D | atum: WGS84 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly | / level (Predomi | nantly Non-h | nydric (6%)) | NWI classific | ation: | |
| Are climatic / hydrologic conditions on the site typica | | | | No X (If no, expla | | |
| Are Vegetation, Soil, or Hydrology | | - | | | - | n |
| Are Vegetation, Soil, or Hydrology | _ | | | plain any answers in Rem | · <u></u> | |
| | <u></u> | | | | • | |
| SUMMARY OF FINDINGS – Attach site | map snowin | g samplir | ng point io | cations, transects, | mportant fea | itures, etc. |
| Hydrophytic Vegetation Present? Yes X | No | Is the | Sampled A | rea | | |
| | No X | withi | n a Wetland | ? Yes | No X | |
| Wetland Hydrology Present? Yes X | No | | | | | |
| Remarks: | | - | | | | |
| Climatic/hydrologic conditions are not typical due to | an above aver | age amount | of rainfall dur | ing September 2019. | | |
| | | | | | | |
| VEGETATION – Use scientific names of p | olants. | | | | | |
| T 01 1 (D) 1 | Absolute | Dominant | Indicator | | | |
| Tree Stratum (Plot size:) | % Cover | Species? | Status | Dominance Test work | | |
| 2. | | | | Number of Dominant S Are OBL, FACW, or FA | | 3 (A) |
| 2 | | | | | | <u> </u> |
| 4 | | | | Total Number of Domin Across All Strata: | ant Species | 4 (B) |
| 5. | | | | Percent of Dominant Sp | accios That | (=) |
| | | Total Cover | | Are OBL, FACW, or FA | | 5.0% (A/B) |
| Sapling/Shrub Stratum (Plot size: 15ft |) | | | | | ` ′ |
| 1. Rhamnus cathartica | 90 | Yes | FAC | Prevalence Index wor | ksheet: | |
| 2. Lonicera X bella | 10 | No | FACU | Total % Cover of: | Multiply | / by: |
| 3 | | | | OBL species 0 | x 1 = | 0 |
| 4 | | | | FACW species 35 | x 2 = | 70 |
| 5 | | | | FAC species 102 | x 3 =3 | 306 |
| | 100= | Total Cover | | FACU species 20 | | 80 |
| Herb Stratum (Plot size: 5ft) | | ., | 5.4014 | UPL species 20 | | 100 |
| Solidago sempervirens | 20 | Yes | FACW | Column Totals: 177 | ` | 556 (B) |
| Geum aleppicum Dipsacus laciniatus | 15 15 | Yes Yes | FACW_ UPL | Prevalence Index = | B/A = 3.14 | <u>+ </u> |
| Dipsacus raciniatus Rhamnus cathartica | 10 | No | FAC | Hydrophytic Vegetation | n Indicators: | |
| Solidago canadensis | 5 | No | FACU | 1 - Rapid Test for H | | tation |
| 6. Cirsium arvense | 5 | No | FACU | X 2 - Dominance Tes | | auon |
| 7. Leucanthemum vulgare | 5 | No | UPL | 3 - Prevalence Inde | | |
| 8. Eupatorium serotinum | 2 | No | FAC | 4 - Morphological A | | ride supporting |
| 9. | | | | data in Remarks | or on a separate | sheet) |
| 10. | | | | Problematic Hydro | ohytic Vegetation ¹ | ¹ (Explain) |
| | 77 = | Total Cover | | ¹ Indicators of hydric soi | I and wetland hyd | Irology must |
| Woody Vine Stratum (Plot size: | _) | | | be present, unless distu | • | |
| 1 | | | | Hydrophytic | | |
| 1. | | | | | | |
| 2. | _ | Total Cover | | Vegetation Present? Yes | X No | |

SOIL Sampling Point: SE 62 UPL

| Profile Desc Depth | ription: (Describe t Matrix | o the dep | | ument tl x Featur | | ator or c | onfirm the | absence o | f indicators | .) | |
|-------------------------|--------------------------------|--------------|-----------------------|-----------------------------|-------------------|------------------|----------------|-------------------------|----------------------------------|-------------------------------|----------------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Text | ure | | Remarks | |
| 0-4 | 10YR 3/2 | 100 | , | | | | Loamy/ | | | loamy clay | |
| 4-16 | 10YR 4/2 | 100 | | | | | Loamy/ | | | lourny olay | |
| 4-10 | 1011 4/2 | 100 | | | | | Loanly/ | Clayey | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | _ | | | | | | | | |
| ¹ Type: C=Co | ncentration, D=Depl | etion, RM= | Reduced Matrix, N | /IS=Mas | ked Sand | d Grains. | | ² Location: | PL=Pore Li | ning, M=Matrix | x. |
| Hydric Soil I | ndicators: | | | | | | | Indicators | for Probler | matic Hydric | Soils ³ : |
| Histosol | (A1) | | Sandy Gle | yed Mat | rix (S4) | | | Coast | Prairie Redo | ox (A16) | |
| Histic Ep | ipedon (A2) | | Sandy Red | dox (S5) | | | | Iron-M | langanese M | lasses (F12) | |
| Black His | stic (A3) | | Stripped M | latrix (S6 | 6) | | | Red P | arent Materia | al (F21) | |
| Hydroger | Hydrogen Sulfide (A4) | | | ice (S7) | | | | Very S | Shallow Dark | Surface (F22 |) |
| Stratified | Layers (A5) | Loamy Mu | cky Mine | eral (F1) | | | Other | (Explain in F | Remarks) | | |
| 2 cm Mu | ck (A10) | | Loamy Gle | eyed Mat | rix (F2) | | | | | | |
| Depleted | Below Dark Surface | (A11) | Depleted N | ∕latrix (F | 3) | | | | | | |
| Thick Da | rk Surface (A12) | | Redox Dar | k Surfac | e (F6) | | | ³ Indicators | of hydrophy | tic vegetation | and |
| Sandy M | ucky Mineral (S1) | | Depleted [| oark Sur | face (F7) |) | | wetlar | nd hydrology | must be prese | ent, |
| 5 cm Mu | cky Peat or Peat (S3) |) | Redox Dep | oression | s (F8) | | | unless | s disturbed o | r problematic. | |
| Restrictive L | ayer (if observed): | | | | | | | | | | |
| Type: | | | | | | | | | | | |
| Depth (in | Depth (inches): | | | | | | | il Present | ? | Yes | No X |
| Remarks: | | | | | | - | | | | | |
| Data point is | on a peninsula into tl | ne wetland | l. Hydric soils are r | ot prese | nt. Does | not me | et hydric soi | ls criteria. | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| HYDROLO | GV | | | | | | | | | | |
| | | | | | | | | | | | |
| - | Irology Indicators: | ! | | | | | | C | . l | | |
| | ators (minimum of or | ne is requii | | | (DO) | | | | / Indicators (i ce Soil Crack | minimum of ty | <u>vo requirea)</u> |
| | Water (A1) | | Water-Stai | | ` , | | | | | , | |
| Saturatio | ter Table (A2) | | Aquatic Fa | - | - | | | | age Patterns eason Water | | |
| Water Ma | ` ' | | Hydrogen | | |) | | | sh Burrows (| | |
| | t Deposits (B2) | | Oxidized F | | - | | nots (C3) | | | ວວ <i>)</i> on Aerial Imag | nery (C9) |
| | osits (B3) | | Presence | | | _ | 3010 (00) | | | ed Plants (D1) | go.y (00) |
| | t or Crust (B4) | | Recent Iro | | | | s (C6) | | orphic Positi | | |
| | osits (B5) | | Thin Muck | | | | () | | , Neutral Test (| | |
| | n Visible on Aerial In | nagery (B7 | | | | | | | | , | |
| Sparsely | Vegetated Concave | Surface (E | 38) Other (Exp | lain in R | lemarks) | | | | | | |
| Field Observ | /ations: | | | | | | | | | | |
| Surface Wate | er Present? Yes | 3 | No X | Depth (i | nches): | | | | | | |
| Water Table | Present? Yes | <u> </u> | | Depth (i | · - | | | | | | |
| Saturation Pr | resent? Yes | <u> </u> | No X | Depth (i | nches): | | Wetland | d Hydrolog | y Present? | Yes | No X |
| (includes cap | illary fringe) | | | | | | <u> </u> | | | | |
| Describe Red | corded Data (stream | gauge, mo | nitoring well, aeria | photos | , previou | s inspec | tions), if ava | ailable: | | | |
| | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | |
| vVetland hydi | ology neither presen | t nor indica | ated. | | | | | | | | |
| | | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (OF | RD) | City/Cou | nty: Chicag | o/Cook | Sampling Date | 9/20/2019 |
|--|----------------|---------------|-----------------|--|-------------------------------|--------------------------|
| Applicant/Owner: City of Chicago | , | _ ′ | , <u> </u> | State: IL | | |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Me | ead & Hunt, In | c. Section, T | Γownship, Ra | ange: Section 16, T40N | I, R12E | |
| Landform (hillside, terrace, etc.): basin | · | | | concave, convex, none): | | |
| | | | , | 3 | Datum: WGS84 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly I | | | | | | |
| <u></u> | | | | | | |
| Are climatic / hydrologic conditions on the site typical | | | | No X (If no, ex | | |
| Are Vegetation, Soil, or Hydrology | _ | | | | · | No |
| Are Vegetation, Soil, or Hydrology | naturally prol | olematic? (| If needed, ex | xplain any answers in Re | emarks.) | |
| SUMMARY OF FINDINGS – Attach site m | ap showir | ng samplin | ng point lo | ocations, transects | , important fe | atures, etc. |
| | lo lo | | Sampled A | | No | |
| | lo | """ | ir a Welland | . 163 <u>X</u> | | |
| Remarks: | | | | | | |
| Climatic/hydrologic conditions are not typical due to a | an above ave | rage amount o | of rainfall dui | ring September 2019. | | |
| VEGETATION – Use scientific names of pla | ants | | | | | |
| | Absolute | Dominant | Indicator | | | |
| Tree Stratum (Plot size:) | % Cover | Species? | Status | Dominance Test wo | rksheet: | |
| 1. 2. | | | | Number of Dominant Are OBL, FACW, or F | • | 1 (A) |
| 3. | | | | Total Number of Dom | inant Species | |
| 4 | | | | Across All Strata: | · | 2 (B) |
| 5 | · | =Total Cover | | Percent of Dominant Are OBL, FACW, or F | • | 50.0% (A/B) |
| Sapling/Shrub Stratum (Plot size: |) | | | | | |
| 1 | | | | Prevalence Index we | | |
| 2. | · | | | Total % Cover o | | |
| 3. | | | | · · · · · · · · · · · · · · · · · · · | 0 x 1 = | 90 |
| 4 | | | | · - | x 2 = | 10 |
| 5 | | | | | x 3 = | 15 |
| Harb Stratum (Diet eizer Eff) | | =Total Cover | | | 5 x 4 = | 20 |
| Herb Stratum (Plot size: 5ft) | 90 | Yes | OBL | · — |) x 5 =)5 (A) | 0 135 (B) |
| Typha angustifolia Solidago sempervirens | 5 | No | FACW | Prevalence Index | `´ | `` |
| Solidago sempervirens Eupatorium serotinum | 5 | No | FAC | i revalence index | - D/A - 1.2 | |
| 4 | | | | Hydrophytic Vegeta | tion Indicators: | |
| 5. | | | | | r Hydrophytic Veg | etation |
| 6. | | | | 2 - Dominance To | | |
| 7. | | | | X 3 - Prevalence In | | |
| 8. | | | | l —— | Adaptations ¹ (Pro | ovide supporting |
| 9. | | | | data in Remar | ks or on a separat | e sheet) |
| 10. | | | | Problematic Hydr | ophytic Vegetatio | n ¹ (Explain) |
| | 100 | =Total Cover | | ¹ Indicators of hydric s | • | |
| Woody Vine Stratum (Plot size: 15ft | | | E+ 0:: | be present, unless dis | sturbed or problem | natic. |
| Parthenocissus quinquefolia 2. | 5 | Yes | FACU | Hydrophytic | | |
| <u> </u> | 5 | Total Cover | | Vegetation Present? Yes | X No | |
| | | | | 100 | | |
| Remarks: (Include photo numbers here or on a sepa Community Type: wet meadow HGM Type: depr | | drophytic veg | etation is pre | esent. | | |

SOIL Sampling Point: SE62 WET

| | | o tne dept | | | | ator or c | confirm the absence of | of indicators.) | | | |
|-------------------------|-------------------------|---------------|-----------------------|---------------|-------------------------|------------------|------------------------------------|-----------------------------------|-------------|--|--|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | k Featur % | es Type ¹ | Loc ² | Texture | Remarks | | | |
| 0-13 | 7.5YR 2.5/1 | 100 | Color (moist) | | Турс | | Loamy/Clayey | clay loam | | | |
| | | | 7 5VD 4/4 | 20 | | | | Distinct redox concentration | | | |
| 13-20 | 10YR 4/2 | 70 | 7.5YR 4/4 | 30 | <u>C</u> | M | Loamy/Clayey | Distinct redox concentration | ns | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Depl | etion. RM= | Reduced Matrix. M | IS=Mas | ked Sand | Grains | ² Location: | PL=Pore Lining, M=Matrix. | | | |
| Hydric Soil | | , | , | | | | | s for Problematic Hydric Soils | 3. | | |
| Histosol | | | Sandy Gle | yed Mat | rix (S4) | | | Prairie Redox (A16) | | | |
| | pipedon (A2) | | Sandy Red | | | | | Manganese Masses (F12) | | | |
| Black Hi | | | Stripped M | | | | | Parent Material (F21) | | | |
| | n Sulfide (A4) | | Dark Surfa | | , | | | Shallow Dark Surface (F22) | | | |
| | Layers (A5) | | Loamy Mu | cky Mine | eral (F1) | | | (Explain in Remarks) | | | |
| 2 cm Mu | | | Loamy Gle | - | | | | | | | |
| | d Below Dark Surface | (A11) | Depleted M | ∕latrix (F | 3) | | | | | | |
| X Thick Da | ark Surface (A12) | , , | Redox Dar | | - | | ³ Indicators | s of hydrophytic vegetation and | | | |
| Sandy M | lucky Mineral (S1) | | Depleted D | ark Sur | face (F7) |) | wetland hydrology must be present, | | | | |
| 5 cm Mu | cky Peat or Peat (S3 | 1 | Redox Dep | ression | s (F8) | | unless disturbed or problematic. | | | | |
| Restrictive | Layer (if observed): | | | | | | | | | | |
| Type: | , | | | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Present | ? Yes X No |) | | |
| Remarks: | <u> </u> | | | | | ļ | | | | | |
| | are present. Hydric s | oils indicate | ors Thick Dark Sur | face (A | 12) is sat | isfied. | | | | | |
| , | , , | | | , | , | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| HYDROLO |)GY | | | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | | | |
| - | cators (minimum of o | ne is requir | ed: check all that a | (vlage | | | Secondar | y Indicators (minimum of two rec | uired) | | |
| | Water (A1) | • | Water-Stai | | ves (B9) | | | ce Soil Cracks (B6) | | | |
| | iter Table (A2) | | Aquatic Fa | una (B1 | 3) | | Draina | age Patterns (B10) | | | |
| Saturation | | | True Aquat | | | | Dry-S | eason Water Table (C2) | | | |
| Water M | arks (B1) | | Hydrogen S | Sulfide (| Odor (C1 |) | Crayfi | sh Burrows (C8) | | | |
| Sedimer | nt Deposits (B2) | | Oxidized R | hizosph | eres on l | Living Ro | oots (C3) Satura | ation Visible on Aerial Imagery (| C9) | | |
| Drift Dep | oosits (B3) | | Presence of | of Reduc | ed Iron (| (C4) | Stunte | ed or Stressed Plants (D1) | | | |
| Algal Ma | t or Crust (B4) | | Recent Iron | n Reduc | tion in Ti | lled Soil | s (C6) X Geom | orphic Position (D2) | | | |
| Iron Dep | osits (B5) | | Thin Muck | Surface | (C7) | | X FAC- | Neutral Test (D5) | | | |
| | on Visible on Aerial In | 0 , () | | Vell Dat | a (D9) | | | | | | |
| Sparsely | Vegetated Concave | Surface (B | 8)Other (Exp | lain in R | lemarks) | | | | | | |
| Field Obser | vations: | | | | | | | | | | |
| Surface Wat | er Present? Yes | | No X | Depth (i | nches): _ | | | | | | |
| Water Table | Present? Yes | | No X | Depth (i | nches): | | 1 | | | | |
| Saturation P | resent? Yes | | No X | Depth (i | nches): _ | | Wetland Hydrolog | y Present? Yes X No | | | |
| (includes cap | | | | | | | | | | | |
| | corded Data (stream | | nitoring well, aerial | photos | , previou | s inspec | tions), if available: | | | | |
| | water table not obser | ved. | | | | | | | | | |
| Remarks: Wetland hvd | rology is indicated. | | | | | | | | | | |
| Jaana nyu | | | | | | | | | | | |
| | | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (| ORD) | City/Cou | nty: Chicago | o/Cook or DuPage | _ Sampling Date | e: <u>9/19</u> | /2019 |
|---|-----------------------|-------------------|---------------------|--|---------------------------------|-----------------------|----------|
| Applicant/Owner: City of Chicago | | | | State: IL | Sampling Poir | it: SE | 64 UPL |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Shan | non, Mead & Hunt, Inc | . Section, | Гownship, Ra | inge: Section 16, T40 | - N, R12E | | |
| Landform (hillside, terrace, etc.): midslope | | | Local relief (| concave, convex, none) | : convex | | |
| Slope (%): 2-3 Lat: 41.95775889 | | | , | 2 | | | |
| Soil Map Unit Name: 805A - Orthents, clayey, near | v level (Predomi | | | | | | |
| Are climatic / hydrologic conditions on the site typic | | | Yes | | | | |
| , , | | - | | | | | |
| Are Vegetation, SoilX, or Hydrology | | | | | | NO X | _ |
| Are Vegetation, Soil, or Hydrology | naturally prob | lematic? (| If needed, ex | plain any answers in R | emarks.) | | |
| SUMMARY OF FINDINGS – Attach site | map showin | g samplir | ng point lo | cations, transect | s, important f | eatures | s, etc. |
| Hydrophytic Vegetation Present? Yes | No X | Is the | Sampled A | rea | | | |
| Hydric Soil Present? Yes | No X | | n a Wetland | | No_X | | |
| Wetland Hydrology Present? Yes | No X | | | | | | |
| Remarks: | | | | | | | |
| Climatic/hydrologic conditions are not typical due to | | age amount | of rainfall dur | ing September 2019. A | rea has been grul | bed and | gravel |
| deposited. Wood chips on surface. Rutting presen | | | | | | | |
| VEGETATION – Use scientific names of | plants. | | | | | | |
| <u>Tree Stratum</u> (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test wo | orksheet: | | |
| 1. | 70 0010. | ороскоо: | Otatao | Number of Dominan | | | |
| 2. | _ | | | Are OBL, FACW, or | • | 0 | (A) |
| 3. | | | | Total Number of Dor | minant Species | | |
| 4 | | | | Across All Strata: | · <u> </u> | 2 | _(B) |
| 5 | | | | Percent of Dominant | • | | |
| | | Total Cover | | Are OBL, FACW, or | FAC: | 0.0% | _(A/B) |
| Sapling/Shrub Stratum (Plot size: |) | | | Duninglam and Indonesia | | | |
| 1. | | | | Prevalence Index w Total % Cover of | | ply by: | |
| 3 | | | | - | 0 x 1 = | 0 0 | _ |
| 4. | _ | | | FACW species | 2 x2= | 4 | _ |
| 5. | | | | | 13 x 3 = | 39 | |
| | = | Total Cover | | FACU species | 50 x 4 = | 200 | |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 33 x 5 = | 165 | _ |
| Solidago canadensis | 30 | Yes | FACU | | 98 (A) | 408 | _(B) |
| 2. Digitaria cognata | 25 | Yes | UPL | Prevalence Index | = B/A =4 | .16 | _ |
| 3. Melilotus officinalis | | No No | FACU | Hadaaahada Waasa | diam la diamenta an | | |
| Eupatorium serotinum Dipsacus laciniatus | <u>10</u> 8 | No No | FAC UPL | Hydrophytic Vegeta | or Hydrophytic Ve | notation | |
| Ambrosia artemisiifolia | | No | FACU | 2 - Dominance T | | getation | |
| 7. Populus deltoides | $\frac{3}{3}$ | No | FAC | 3 - Prevalence li | | | |
| 8. Solidago sempervirens | | No | FACW | | al Adaptations ¹ (Pi | rovide su | pporting |
| 9. | | | | | rks or on a separa | | |
| 10. | | | | Problematic Hyd | Irophytic Vegetati | on ¹ (Expl | ain) |
| | 98 = | Total Cover | | ¹ Indicators of hydric | soil and wetland h | ydrology | must |
| Woody Vine Stratum (Plot size: |) | | | be present, unless d | | | |
| 1 | | | | Hydrophytic | | | |
| 2 | | | | Vegetation | | v | |
| | | Total Cover | | Present? Yes | No_ | <u>X</u> | |
| Remarks: (Include photo numbers here or on a se | . , | tion is not or | recent About | 20ft congretos dete se | inte with 2ft alova | tion chan | 100 |

SOIL Sampling Point: SE64 UPL

| Profile Desc Depth | ription: (Describe t Matrix | o the dep | | iment th x Feature | | ator or c | onfirm the abse | nce of indicators.) | |
|-------------------------|---|-------------|-----------------------|------------------------------|-------------------|------------------|----------------------|------------------------|---------------------------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | F | Remarks |
| 0-6 | 7.5YR 3/1 | 100 | Color (molot) | | - 71 | | Loamy/Claye | | tomanto |
| 6-8 | 7.5YR 3/1 | 90 | 2.5YR 3/4 | 10 | | | | | edox concentrations |
| | | | 2.51R 3/4 | 10 | <u> </u> | M_ | Sandy | | |
| 8-16 | 7.5YR 5/2 | 100 | | | | | Sandy | sandy lo | oam with gravel |
| | | | | | | | | | |
| | | | | | | | | | _ |
| | | | | | | | | | |
| | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion, RM= | Reduced Matrix, N | 1S=Masl | ked Sand | d Grains. | ² Loc | ation: PL=Pore Linin | g, M=Matrix. |
| Hydric Soil I | ndicators: | | | | | | Indi | cators for Problemat | tic Hydric Soils ³ : |
| Histosol (| (A1) | | Sandy Gle | yed Matı | rix (S4) | | (| Coast Prairie Redox (| A16) |
| Histic Ep | ipedon (A2) | | Sandy Red | lox (S5) | | | ! | ron-Manganese Mas | ses (F12) |
| Black His | stic (A3) | | Stripped M | atrix (S6 | 5) | | ! | Red Parent Material (| F21) |
| Hydroger | n Sulfide (A4) | | Dark Surfa | , , | | | | Very Shallow Dark Sเ | ırface (F22) |
| | Layers (A5) | | Loamy Mu | - | | | | Other (Explain in Rem | narks) |
| 2 cm Mud | ` ' | | Loamy Gle | - | | | | | |
| | Below Dark Surface | (A11) | Depleted N | | • | | 2 | | |
| | rk Surface (A12) | | Redox Dar | | , , | | | cators of hydrophytic | • |
| | ucky Mineral (S1) | | Depleted D | | ` ' |) | | wetland hydrology mu | • |
| 5 cm Mud | cky Peat or Peat (S3) Redox Depressions (F8) unless disturbed or problematic. | | | | | | oblematic. | | |
| | ayer (if observed): | | | | | | | | |
| Type: | | | | | | | | | |
| Depth (in | ches): | | | | | | Hydric Soil Pre | esent? | /es No_X |
| Remarks: | | | | | | | | | |
| Hydric soils a | are not present. Does | not meet | hydric soils criteria | . Redox | layer too | thin to | qualify. | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| | | | | | | | | | |
| _ | drology Indicators: ators (minimum of o | no io rogui | rad: abaak all that | annlu) | | | Soor | andan Indicatora (mir | nimum of two required) |
| | Nater (A1) | ne is requi | Water-Stai | | ves (RQ) | | | Surface Soil Cracks (I | |
| | ter Table (A2) | | Aquatic Fa | | , , | | | Drainage Patterns (B | , |
| Saturatio | | | True Aqua | - | - | | | Dry-Season Water Ta | |
| Water Ma | ` ' | | Hydrogen | | |) | | Crayfish Burrows (C8 | |
| | t Deposits (B2) | | Oxidized R | | | - | | Saturation Visible on | |
| | osits (B3) | | Presence of | | | _ | | Stunted or Stressed F | |
| | t or Crust (B4) | | Recent Iro | | | | | Geomorphic Position | |
| Iron Depo | osits (B5) | | Thin Muck | Surface | (C7) | | | FAC-Neutral Test (D5 | 5) |
| Inundatio | n Visible on Aerial In | nagery (B7 | 7) Gauge or \ | Well Data | a (D9) | | | | |
| Sparsely | Vegetated Concave | Surface (E | 38) Other (Exp | lain in R | emarks) | | | | |
| Field Observ | vations: | | | | | | | | |
| Surface Water | er Present? Yes | S | No_X_ | Depth (ir | nches): | | | | |
| Water Table | Present? Yes | s | No X | Depth (ir | nches): | , | | | |
| Saturation Pr | resent? Yes | s | No X | Depth (ir | nches): | | Wetland Hyd | rology Present? | res No_X_ |
| (includes cap | illary fringe) | | | | | | | | |
| Describe Red | corded Data (stream | gauge, mo | onitoring well, aeria | photos, | previou | s inspec | tions), if available | : | |
| | | | | | | | | | |
| Remarks: | | | lianta d | | | | | | |
| vvetland hydr | rology is neither pres | ent nor inc | licated. | | | | | | |
| | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (ORD) |) | City/Cou | nty: Chicago | /Cook | Sampling | Date: 9 | 9/19/2019 |
|--|---------------------|-------------------|---------------------|-------------------------------|---------------------------------|-------------------------|--------------|
| Applicant/Owner: City of Chicago | | | | State: | IL Sampling | Point: | SE 64 WET |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Mead | d & Hunt, Inc | . Section, 1 | Гownship, Ra | nge: Section 16 | 6, T40N, R12E | _ | |
| Landform (hillside, terrace, etc.): basin | | | Local relief (c | oncave, convex, | none): concave | | |
| , | | | ` | , | · — | S84 | |
| Soil Map Unit Name: 805A - Orthents, clayey, nearly leve | | | | | | | |
| | | | | | | | |
| Are climatic / hydrologic conditions on the site typical for | | • | Yes | | no, explain in Rem | | |
| Are Vegetation, Soil_X, or Hydrologysignature. | | | Are "Normal C | Circumstances" p | resent? Yes | No_ | X |
| Are Vegetation, Soil, or Hydrologyna | aturally prob | lematic? (| If needed, ex | plain any answer | s in Remarks.) | | |
| SUMMARY OF FINDINGS – Attach site map | showin | g samplin | ng point lo | cations, tran | sects, importa | nt featu | ıres, etc. |
| Hydrophytic Vegetation Present? Yes X No | | Is the | Sampled Ar | ea | | | |
| | | | n a Wetland? | | X No | | |
| Wetland Hydrology Present? Yes X No | | | | | | | |
| Remarks: | | | | | | | |
| Climatic/hydrologic conditions are not typical due to an deposited along with wood chips. | above avera | age amount o | of rainfall duri | ng September 20 | 019. Area has been | grubbed | and gravel |
| <u> </u> | | | | | | | |
| VEGETATION – Use scientific names of plan | | | | | | | |
| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance To | est worksheet: | | |
| 1 | | | | Number of Dor Are OBL, FAC | minant Species Tha | at 2 | (A) |
| 3. | | | | | | | (/ (/ |
| 4. | | | | Across All Stra | of Dominant Specie ata: | es 2 | (B) |
| 5. | | | | Percent of Dor | ninant Species Tha | | `` |
| | | Total Cover | | Are OBL, FAC | • | | 0% (A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | | | | |
| 1. | | | | Prevalence In | dex worksheet: | | |
| 2 | | | | Total % C | over of: | Multiply b | <u>y:</u> |
| 3 | | | | OBL species | 55 x 1 | = 55 | <u> </u> |
| 4 | | | | FACW species | | = 46 | <u> </u> |
| 5 | | | | FAC species | | | |
| | = | Total Cover | | FACU species | | | |
| Herb Stratum (Plot size: 5 ft) | 50 | | 0.01 | UPL species | 2 x 5 | | |
| Typha angustifolia Stillage assume tienes | 50 | Yes | OBL | Column Totals | | 150 | 0 (B) |
| Solidago sempervirens Hordeum jubatum | <u>20</u> 5 | Yes No | FACW FAC | Prevalence | Index = B/A = | 1.61 | |
| 4. Carex stipata | 5 | No | OBL | Hydrophytic \ | /egetation Indicate | ore: | |
| 5. Eupatorium serotinum | 5 | No | FAC | | est for Hydrophytic | | on |
| 6. Phragmites australis | 3 | No | FACW | | ance Test is >50% | vogotati | OII |
| 7. Rhamnus cathartica | 2 | No | FAC | | ence Index is ≤3.0 ¹ | | |
| 8. Leucanthemum vulgare | 2 | No | UPL | | ological Adaptations | s ¹ (Provide | e supporting |
| 9. Rumex crispus | 1 | No | FAC | | Remarks or on a se | - | |
| 10. | | | | Problemat | ic Hydrophytic Veg | etation ¹ (E | Explain) |
| | 93 = | Total Cover | | ¹Indicators of h | nydric soil and wetla | and hydro | logy must |
| Woody Vine Stratum (Plot size:) | | | | | less disturbed or pr | - | |
| 1 | | | | Hydrophytic | | | |
| 2 | | | | Vegetation | | | |
| | = | Total Cover | | Present? | Yes X | lo | |
| Remarks: (Include photo numbers here or on a separal Community Type: wet meadow HGM Type: depression | , | vtic venetati | on is present | Some hare area | s with standing wat | er | |

SOIL Sampling Point: SE 64 WET

| Profile Desc | ription: (Describe | to the dept | th needed to doc | ument t | he indica | ator or c | onfirm the absence of | of indicators.) | | |
|------------------------------|--|----------------|-----------------------|--------------|-------------------|------------------|------------------------|---|--|--|
| Depth | Matrix | | Redo | x Featur | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | |
| 0-4 | 7.5YR 3/1 | 100 | | | | | Loamy/Clayey | silt loam | | |
| 4-12 | 10YR 4/2 | 90 | 10YR 4/6 | _10 | C | M | | Prominent redox concentrations | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | ncentration, D=De | pletion, RM= | Reduced Matrix, I | MS=Mas | ked Sand | d Grains | | PL=Pore Lining, M=Matrix. | | |
| Hydric Soil I | | | | | | | | s for Problematic Hydric Soils ³ : | | |
| Histosol | ` ' | | Sandy Gle | - | | | | t Prairie Redox (A16) | | |
| I — | ipedon (A2) | | Sandy Re | , , | | | | Manganese Masses (F12) | | |
| Black His | | | Stripped N | • | 5) | | | Parent Material (F21) | | |
| | n Sulfide (A4) | | Dark Surfa | , , | | | | Shallow Dark Surface (F22) | | |
| | Layers (A5) | | Loamy Mu | • | ` ' | | Other | (Explain in Remarks) | | |
| 2 cm Mu | ` ' | - (0.4.4) | Loamy Gle | | | | | | | |
| | Below Dark Surface | œ (A11) | X Depleted I | | | | 31 | | | |
| | rk Surface (A12) | | Redox Da | | , , | | | s of hydrophytic vegetation and | | |
| I — | ucky Mineral (S1) | .2) | Depleted I Redox De | | , , | | | nd hydrology must be present, | | |
| | cky Peat or Peat (S | • | Redox De | pression | S (FO) | | unies | s disturbed or problematic. | | |
| | _ayer (if observed) |): | | | | | | | | |
| Type: | | | | | | | | | | |
| Depth (in | Depth (inches): Hydric Soil Present? Yes _ X | | | | | | | | | |
| Remarks: | | | | | | | | | | |
| Hydric soils a | are present. Hydric | soils indicat | ors Depleted Belo | w Dark | Surface (| A11) an | d Depleted Matrix (F3) | are satisfied. | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| LIV/DD 61 6 | | | | | | | | | | |
| HYDROLO | | | | | | | | | | |
| - | drology Indicators | | | | | | | | | |
| | ators (minimum of | one is requir | | | | | | y Indicators (minimum of two required) | | |
| X Surface \ | ` , | | Water-Sta | | ` ' | | | ce Soil Cracks (B6) | | |
| ` | ter Table (A2) | | Aquatic Fa | | • | | | age Patterns (B10) | | |
| X Saturatio | | | True Aqua | | | | | season Water Table (C2) | | |
| Water Ma | | | Hydrogen | | | | | ish Burrows (C8) | | |
| | t Deposits (B2) | | Oxidized F | | | _ | | ation Visible on Aerial Imagery (C9) | | |
| | osits (B3) | | Presence | | | , | | ed or Stressed Plants (D1) | | |
| I — ` | t or Crust (B4) | | Recent Iro | | | lied Soll | | norphic Position (D2) Neutral Test (D5) | | |
| | osits (B5) | Imaganı (D7 | Thin Muck | | | | <u> </u> | Neutral Test (D5) | | |
| | on Visible on Aerial Vegetated Concav | | · | | | | | | | |
| | | e ourrace (D | Other (EX | Jiaiii iii i | (emarks) | | T | | | |
| Field Observ | | V | No | Donth (i | nahaa\. | 2 | | | | |
| Surface Wate | | es X | No | Depth (i | · - | 2 | | | | |
| Water Table Saturation Pr | | es X es X | No No | Depth (i | _ | 0 | Wetland Hydrolog | w Bracont2 Vac V No | | |
| (includes cap | | <u> </u> | NO | Deptii (i | | | wettand riyurolog | yy Present? Yes X No No | | |
| | corded Data (strear | n dalide mo | nitoring well aeria | al photos | previous | s inspec | tions) if available: | | | |
| Pegoline I/e | Solded Data (Stiedi | ii gaage, iilo | intolling well, aelle | " hiloros | , previous | o mapec | uonoj, ii avallabie. | | | |
| Remarks: | | | | | | | | | | |
| | rology is present ar | nd indicated. | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (ORD) | Ci | ty/County: 0 | Chicago/DuPa | ige | Sampl | ing Date: | 8/14/2 | 2019 |
|--|----------------|--------------------------|------------------|-----------------------------------|-----------------|-------------|----------|--------------|
| Applicant/Owner: City of Chicago | | | | State: IL | Sampl | ing Point: | SW19- | -39 UPL |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Mead & F | Hunt, Inc. Se | ction, Towns | hip, Range: | Section 12, T | 40N, R11E | | | |
| Landform (hillside, terrace, etc.): midslope | | Local | relief (concave | e, convex, noi | ne): convex | | | |
| Slope (%): 30-40% Lat: 41.96802031 | l | ong: <u>-</u> 87.93 | 646915 | | Datum: \ | WGS84 | | |
| Soil Map Unit Name: 805B - Orthents, clayey, undulating (Pr | edominantly | Non-hydric (6 | 6%)) | NWI cla | assification: | | | |
| Are climatic / hydrologic conditions on the site typical for this | time of year? | Yes | X No | (If no | explain in R | emarks.) | | |
| Are Vegetation X , Soil , or Hydrology signific | cantly disturb | _ | ormal Circums | stances" pres | ent? Yes | X No |) | |
| Are Vegetation , Soil , or Hydrology natura | | | ded, explain a | | _ | | | _ |
| SUMMARY OF FINDINGS – Attach site map sh | | | int locatio | ns, transe | cts, impo | rtant fea | tures | , etc. |
| Hydrophytic Vegetation Present? Yes No X | | Is the Sam | pled Area | | | | | |
| Hydric Soil Present? Yes No X | | within a W | | Yes | No_ | X | | |
| Wetland Hydrology Present? Yes No X | _ | | | | | | | |
| Remarks: | | | | | | | | |
| Area mown regularly. | | | | | | | | |
| | | | | | | | | |
| VEGETATION – Use scientific names of plants. | | | | | | | | |
| | | inant Indic cies? Sta | _ | ninance Test | worksheet: | | | |
| 1. | | | | nber of Domin | | That | 0 | (A) |
| 2. 3. | | | | OBL, FACW, | | . — | 0 | _(A) |
| 4. | | | | al Number of Doss All Strata: | • | ecies | 1 | (B) |
| 5 | | | | cent of Domin | | | | _ |
| Capling/Chrub Stratum /Diet size: | =Total | Cover | Are | OBL, FACW, | or FAC: | 0 | .0% | _(A/B) |
| Sapling/Shrub Stratum (Plot size:) 1. | | | Prev | valence Index | r worksheet | • | | |
| 2. | _ | | <u> </u> | Total % Cove | | Multiply | by: | |
| 3. | | | OBL | species | 0 2 | x 1 = | 0 | _ |
| 4. | | | FAC | W species | 0 : | x 2 = | 0 | |
| 5 | | | | species | | x 3 = | 0 | _ |
| — (Plataina 55 | =Total | Cover | | U species | | | 100 | _ |
| Herb Stratum (Plot size: 5ft) 1. Schedonorus arundinaceus | 90 Y | es FA | | . species | 0 : 100 (A | x 5 = | 0 400 | (B) |
| | | | | revalence Ind | | 4.00 | | - (D) |
| 3. | | | | | | | | _ |
| 4. | | | Hyd | rophytic Veg | etation Indic | cators: | | |
| 5. | | | | 1 - Rapid Tes | t for Hydroph | nytic Veget | ation | |
| 6 | | | | 2 - Dominanc | e Test is >50 |)% | | |
| 7 | | | | 3 - Prevalenc | | | | |
| 8 | | | | 4 - Morpholog | | • | | |
| 9 | | | | | marks or on a | | | |
| 10 | | <u> </u> | | Problematic H | | • | | , |
| Woody Vine Stratum (Plot size:) | 00 =Total | Cover | | icators of hydi resent, unless | | - | | must |
| 1 | | | Hyd | rophytic | | | | |
| 2 | | | Veg | etation | _ | | | |
| | =Total | Cover | Pres | sent? \ | /es | No X | _ | |
| Remarks: (Include photo numbers here or on a separate sh Community Type: developed land HGM Type: N/A Hydroph | , | is not presen | t. 10ft separate | es and 3ft highe | er in elevation | from wetlan | ıd datan | oint. |

SOIL Sampling Point: SW19-39 UPL

| | cription: (Describe t | o the dept | | | | tor or o | confirm the absen | ce of indicators | i.) | | | |
|------------------------|---|--------------|-----------------------|-----------|-------------------|------------------|----------------------|--------------------|------------------|-------------|--|--|
| Depth | Matrix | | | K Featur | | Loc ² | T 4 | | Damada | | | |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | <u>%</u> | Type ¹ | LOC | Texture | _ | Remarks | | | |
| 0-4 | 7.5YR 3/1 | 100 | | | | | Loamy/Clayey | | | | | |
| 4-12 | 7.5YR 3/1 | 60 | | | | | Loamy/Clayey | | | | | |
| | 7.5YR 4/2 | 40 | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Depl | etion RM= | Reduced Matrix M | | ked Sand | Grains | ² l ocat | ion: PL=Pore Li | ning M=Matrix | | | |
| Hydric Soil | | Cuon, rui | -reduced Matrix, IV | IO-IVIASI | ica Garia | Oranis | | tors for Proble | | | | |
| Histosol | | | Sandy Gley | ved Mat | riy (S4) | | | past Prairie Red | - | | | |
| | pipedon (A2) | | Sandy Red | | 11X (O-1) | | | on-Manganese M | | | | |
| Black His | | | Stripped M | | 3) | | | ed Parent Materi | | | | |
| | n Sulfide (A4) | | Dark Surfa | • | ,, | | | ery Shallow Dark | , , | | | |
| | Layers (A5) | | Loamy Mu | , , | eral (F1) | | | ther (Explain in F | | | | |
| 2 cm Mu | • , , | | Loamy Gle | - | | | | атог (Ехріант інт | tornamo) | | | |
| | l Below Dark Surface | (A11) | Depleted M | | | | | | | | | |
| | rk Surface (A12) | (****) | Redox Dar | | | | ³ Indica | ators of hydrophy | tic vegetation a | and | | |
| | Sandy Mucky Mineral (S1) Depleted Dark Surface (F7 | | | | | | | etland hydrology | • | | | |
| | cky Peat or Peat (S3 | Redox Dep | | | | | nless disturbed o | | , | | | |
| | Layer (if observed): | , | _ | | | | | | | | | |
| Type: | compacted I | aver | | | | | | | | | | |
| Depth (ir | | 12 | | | | | Hydric Soil Pres | ent? | Yes | No X | | |
| . ` | | | | | | | | | | | | |
| Remarks: | are not present. Does | not meet | hydric soils criteria | | | | | | | | | |
| Tryunc sons a | are not present. Does | not meet | riyunc sons cinena | • | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| HYDROLO | GY | | | | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | | | | |
| Primary India | cators (minimum of o | ne is requir | red; check all that a | apply) | | | Secon | dary Indicators (| minimum of tw | o required) | | |
| Surface | Water (A1) | | Water-Stai | ned Lea | ves (B9) | | St | urface Soil Crack | ks (B6) | | | |
| High Wa | ter Table (A2) | | Aquatic Fa | una (B1 | 3) | | Di | rainage Patterns | (B10) | | | |
| Saturatio | on (A3) | | True Aquat | tic Plant | s (B14) | | Dı | y-Season Wate | r Table (C2) | | | |
| Water M | arks (B1) | | Hydrogen S | Sulfide (| Odor (C1) | | Cı | ayfish Burrows (| (C8) | | | |
| | t Deposits (B2) | | Oxidized R | | | U | ` ' | aturation Visible | _ | ery (C9) | | |
| | osits (B3) | | Presence o | | , | , | | unted or Stresse | | | | |
| | t or Crust (B4) | | Recent Iron | | | led Soil | ` ' | eomorphic Posit | | | | |
| | osits (B5) | (5- | Thin Muck | | | | F | AC-Neutral Test | (D5) | | | |
| | on Visible on Aerial In | | · — | | | | | | | | | |
| | Vegetated Concave | Surface (B | 38)Other (Exp | iain in R | (emarks | | _ | | | | | |
| Field Obser | | | | | | | | | | | | |
| Surface Wat | | <u> </u> | | | nches): _ | | | | | | | |
| Water Table | | <u> </u> | | | nches): | | w.a | Januar Burnar (C. | V | Na V | | |
| Saturation P | | | No X | Depth (ii | ncnes): | | Wetland Hydro | nogy Present? | Yes | No X | | |
| (includes cap | | aguac | unitoring wall as-i-l | nhoto- | province | inona- | tions) if cyclichis: | | | | | |
| Describe Re | corded Data (stream | gauge, mo | miloring well, aerial | priotos | , previous | ınspec | uons), ii avaliable: | | | | | |
| Remarks: | | | | | | | | | | | | |
| | rology is neither pres | ent nor ind | licated. | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (OF | RD) | City/Cou | nty: Chicag | o/DuPage | Sampling Date | : 8/14/2019 |
|---|----------------|---------------|----------------|---|--------------------|------------------|
| Applicant/Owner: City of Chicago | · | | | State: IL | | : SW19-39 WET |
| Investigator(s): Brauna Hartzell, Conor Makepeace, M | ead & Hunt, In | c. Section, T | ownship, Ra | ange: Section 12, T40N | I, R11E | |
| Landform (hillside, terrace, etc.): swale | | | Local relief (| concave, convex, none): | concave | |
| Slope (%): <1% Lat: 41.96804399 | | | | | Datum: WGS84 | |
| Soil Map Unit Name: 805B - Orthents, clayey, undula | | | | | | |
| Are climatic / hydrologic conditions on the site typical | | | Yes X | | |) |
| Are Vegetation, Soil, or Hydrology | | - | | | | |
| | = | | | | | |
| Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site m | | | | xplain any answers in Re ocations, transects | • | eatures, etc. |
| Hydric Soil Present? Yes X | No No | | Sampled A | | No | |
| VEGETATION – Use scientific names of pl | ants. | | | | | |
| | Absolute | Dominant | Indicator | | | |
| Tree Stratum (Plot size:) 1. | % Cover | Species? | Status | Dominance Test wo | | |
| 2. | | | | Number of Dominant Are OBL, FACW, or F | • | 3 (A) |
| 3. 4. | | | | Total Number of Dom Across All Strata: | inant Species | 3 (B) |
| 5 | ·= | Total Cover | | Percent of Dominant Are OBL, FACW, or F | • | 100.0% (A/B) |
| Sapling/Shrub Stratum (Plot size: | _) | | | Prevalence Index we | orksheet: | |
| 1. 2. | | | | Total % Cover o | | oly by: |
| 3. | | | | - | 00 x 1 = | 100 |
| 4. | | | | FACW species (|) x 2 = | 0 |
| 5. | | | | FAC species | x 3 = | 0 |
| | = | Total Cover | | FACU species | x 4 = | 0 |
| Herb Stratum (Plot size: 5ft) | | | | UPL species (| x 5 = | 0 |
| Typha angustifolia | 45 | Yes | OBL | | 00 (A) | 100 (B) |
| 2. Eleocharis obtusa | 20 | Yes | OBL | Prevalence Index | = B/A = <u>1.</u> | 00 |
| 3. Epilobium coloratum | 20 | Yes | OBL | 11 1 1 2 14 4 | | |
| 4. Lythrum salicaria | 15 | No | OBL | Hydrophytic Vegeta | | 4 . 4: |
| 5. | | | | X 1 - Rapid Test fo | | jetation |
| 6. 7. | | | | X 2 - Dominance To X 3 - Prevalence Inc | | |
| | | | | 4 - Morphological | | ovide supporting |
| | | | | | ks or on a separat | |
| 10. | | | | | ophytic Vegetatio | |
| | | Total Cover | | ¹ Indicators of hydric s | oil and wetland h | ydrology must |
| Woody Vine Stratum (Plot size: | _' | | | be present, unless dis | starbed or problen | nauc. |
| 2. | | | | Hydrophytic Vegetation | | |
| | | Total Cover | | _ | X No | |
| Remarks: (Include photo numbers here or on a sepa | arate sheet.) | | | ļ | | |
| Community Type: wet meadow HGM Type: depre | , | ophytic veget | ation is pres | ent. Lemna sp. present | on standing water | |

SOIL Sampling Point: SW19-39 WET

| Depth | Matrix | | | x Feature | | | | | | | |
|---|--|---|--|---|--|--|--|--|--|--|--|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | | |
| 0-6 | 10YR 3/1 | 70 | Coloi (moist) | | Турс | | Loamy/Clayey | clay | | | |
| | GLEY1 4/10 GY | 30 | | | | | Loamy/Clayey | clay | | | |
| | | | | | | | | | | | |
| 6-18 | 10YR 3/1 | 100 | | | | | Loamy/Clayey | clay | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Depl | etion, RM=F | Reduced Matrix, N | 1S=Masl | ced Sand | d Grains. | ² Location: | PL=Pore Lining, M=Matrix. | | | |
| Hydric Soil | Indicators: | | | | | | Indicators | s for Problematic Hydric Soils ³ : | | | |
| Histosol | (A1) | | Sandy Gle | | ix (S4) | | Coast | Prairie Redox (A16) | | | |
| Histic Epipedon (A2) | | | Sandy Red | lox (S5) | | | Iron-Manganese Masses (F12) | | | | |
| Black Hi | stic (A3) | | Stripped M | atrix (S6 | 5) | | | arent Material (F21) | | | |
| X Hydroge | n Sulfide (A4) | | Dark Surfa | ce (S7) | | | Very S | Shallow Dark Surface (F22) | | | |
| | d Layers (A5) | | Loamy Mu | - | | | Other | (Explain in Remarks) | | | |
| | ıck (A10) | | Loamy Gle | | | | | | | | |
| | d Below Dark Surface | (A11) | Depleted N | | - | | 3 | | | | |
| | ark Surface (A12) | | Redox Dar | | ` ' | | ³ Indicators of hydrophytic vegetation and | | | | |
| | lucky Mineral (S1) | | Depleted D | | , , |) | | nd hydrology must be present, | | | |
| | icky Peat or Peat (S3) | | Redox Dep | ressions | S (F8) | | uniess | s disturbed or problematic. | | | |
| | Layer (if observed): | | | | | | | | | | |
| Type: | | | _ | | | | | | | | |
| Depth (ir | ncnes): | | _ | | | | Hydric Soil Present? Yes X No | | | | |
| Remarks: | | | | | | | 0.151.740.1 | | | | |
| in eastern e | nd of wetland, severe | ruts. Hydrid | soils are presen | i. Hydric | soils ind | licator Hy | /drogren Sulfide (A4) is | s satisfied. | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| LIVEROLO | 201 | | | | | | | | | | |
| HYDROLC | | | | | | | | | | | |
| - | drology Indicators: | | | | | | | | | | |
| | | | | | | | | | | | |
| X Surface Water (A1) Water-Stained Leaves (B9) | | | | | | | | / Indicators (minimum of two required) | | | |
| | Water (A1) | ne is require | | ned Lea | , , | | Surfac | ce Soil Cracks (B6) | | | |
| | Water (A1) ater Table (A2) | ne is require | Water-Stai Aquatic Fa | ned Lea una (B1 | 3) | | Surface Draina | ce Soil Cracks (B6) age Patterns (B10) | | | |
| X Saturation | Water (A1) ater Table (A2) on (A3) | ne is require | Water-Stai Aquatic Fa True Aqua | ned Lea una (B1: tic Plants | 3) s (B14) | | Surface Draina Dry-Se | ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) | | | |
| X Saturation Water M | Water (A1) ster Table (A2) on (A3) larks (B1) | ne is require | Water-Stai Aquatic Fa True Aqua X Hydrogen | ned Lea una (B1: tic Plants Sulfide C | 3) s (B14) Odor (C1) |) | Surface Draina Dry-Sc Crayfi | ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) | | | |
| X Saturation Water M Sedimen | Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) | ne is require | Water-Stai Aquatic Fa True Aqua X Hydrogen S Oxidized R | ned Lea una (B1 tic Plant Sulfide C thizosph | 3) s (B14) Odor (C1) eres on l |) Living Ro | Surface Draina Dry-Si Crayfi sots (C3) Satura | ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) | | | |
| X Saturation Water M Sedimer Drift Dep | Water (A1) Ater Table (A2) On (A3) Alarks (B1) At Deposits (B2) At Descriptions | ne is require | Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R Presence | ned Lea una (B1: tic Plants Sulfide C thizospho of Reduc | 3) s (B14) Odor (C1) eres on led |) Living Ro (C4) | Surface | ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) | | | |
| X Saturation Water M Sedimer Drift Dep Algal Ma | Water (A1) Ater Table (A2) On (A3) Alarks (B1) At Deposits (B2) At or Crust (B4) | ne is require | Water-Stai Aquatic Fa True Aqua X Hydrogen S Oxidized R Presence C Recent Iro | ned Lea una (B1: tic Plants Sulfide C thizosphof Reduc n Reduc | 3) s (B14) Odor (C1) eres on L ed Iron (|) Living Ro (C4) | Surface Draina Dry-Sc Crayfic Stunte Stunte S (C6) X Geom | ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) corphic Position (D2) | | | |
| X Saturation Water M Sedimer Drift Dep Algal Ma | Water (A1) Ater Table (A2) On (A3) Alarks (B1) At Deposits (B2) At Descriptions | | Water-Stai Aquatic Fa True Aqua X Hydrogen S Oxidized R Presence of Recent Iron Thin Muck | ned Lea una (B1: tic Plants Sulfide C thizosphor of Reduc n Reduc Surface | 3) s (B14) Odor (C1) eres on Led Iron (tion in Ti |) Living Ro (C4) | Surface Draina Dry-Sc Crayfic Stunte Stunte S (C6) X Geom | ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) | | | |
| X Saturation Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation | Water (A1) Inter Table (A2) In (A3) Ilarks (B1) In Deposits (B2) In Deposits (B3) Inter Crust (B4) Inter Table (A2) Inter Table (A | nagery (B7) | Water-Stai Aquatic Fa True Aqua X Hydrogen S Oxidized R Presence C Recent Iro Thin Muck Gauge or N | ned Lea una (B1: tic Plant: Sulfide C thizospho of Reduc n Reduc Surface Well Data | 3) s (B14) Odor (C1) eres on L ted Iron (tion in Ti (C7) a (D9) |) Living Ro (C4) Iled Soils | Surface Draina Dry-Sc Crayfic Stunte Stunte S (C6) X Geom | ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) corphic Position (D2) | | | |
| X Saturation Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation Sparsely | Water (A1) Inter Table (A2) In (A3) Itarks (B1) Int Deposits (B2) Int Deposits (B3) Int or Crust (B4) Interest (B5) In | nagery (B7) | Water-Stai Aquatic Fa True Aqua X Hydrogen S Oxidized R Presence C Recent Iro Thin Muck Gauge or N | ned Lea una (B1: tic Plant: Sulfide C thizospho of Reduc n Reduc Surface Well Data | 3) s (B14) Odor (C1) eres on L ted Iron (tion in Ti (C7) a (D9) |) Living Ro (C4) Iled Soils | Surface Draina Dry-Sc Crayfic Stunte Stunte S (C6) X Geom | ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) corphic Position (D2) | | | |
| X Saturation Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation | Water (A1) Inter Table (A2) In (A3) Ilarks (B1) In Deposits (B2) Interposits (B3) Interposits (B4) Interposits (B5) Interposits (B | nagery (B7) Surface (B8 | Water-Stai Aquatic Fa True Aqua X Hydrogen S Oxidized R Presence of Recent Iro Thin Muck Gauge or V Other (Exp | ned Lea una (B1: Sulfide C thizosphof Reduc n Reduc Surface Well Data lain in R | 3) s (B14) Odor (C1) eres on L ed Iron (tion in Ti (C7) a (D9) emarks) |) Living Rc (C4) Illed Soils | Surface Draina Dry-Sc Crayfic Stunte Stunte S (C6) X Geom | ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) corphic Position (D2) | | | |
| X Saturation Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation Sparsely Field Obser | Water (A1) Inter Table (A2) In (A3) Iarks (B1) In Deposits (B2) Interposits (B3) Interposits (B4) Interposits (B5) Interposits (B5 | nagery (B7) Surface (B8 sX_ | Water-Stai Aquatic Fa True Aqua X Hydrogen S Oxidized R Presence C Recent Iro Thin Muck Gauge or V Other (Exp | ned Lea una (B1: tic Plant: Sulfide C thizospho of Reduc n Reduc Surface Well Data | 3) s (B14) Odor (C1) eres on L ed Iron (tion in Ti (C7) a (D9) emarks) |) Living Ro (C4) Iled Soils | Surface Draina Dry-Sc Crayfic Stunte Stunte S (C6) X Geom | ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) corphic Position (D2) | | | |
| X Saturation Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation Sparsely Field Obser Surface Water | Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (A2) Inter Table (B2) Inter Table (B2) Inter Table (B2) Inter Teres (B3) Inter Teres (B4) | nagery (B7) Surface (B8 s X | Water-Stai Aquatic Fa True Aqua X Hydrogen S Oxidized R Presence of Recent Iro Thin Muck Gauge or N Other (Exp | ned Lea una (B1: tic Plants Sulfide C thizosphof Reduct n Reduct Surface Well Data lain in R | s (B14) Odor (C1) eres on Led Iron (C7) a (D9) emarks) nches):nches):nches): _ |) Living Rc (C4) Illed Soils | Surface Draina Dry-Sc Crayfic Stunte Stunte S (C6) X Geom | ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) orphic Position (D2) Neutral Test (D5) | | | |
| X Saturation Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation Sparsely Field Obser Surface Water Water Table | Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (A2) Inter Table (A2) Inter Table (B2) Inter Table (B2) Inter Present? Inter Table (A2) Inter Table (B2) Inter Deposits (B2) Inter Present? Inter Present. Inter Present. Inter Present. Inter Present. Inter Present. Inter Present | nagery (B7) Surface (B8 s X | Water-Stai Aquatic Fa True Aqua X Hydrogen S Oxidized R Presence of Recent Iron Thin Muck Gauge or N Other (Exp | ned Lea una (B1: tic Plants Sulfide C thizosphof Reduct n Reduct Surface Well Data lain in R | s (B14) Odor (C1) eres on Led Iron (C7) a (D9) emarks) nches):nches):nches): _ |) Living Rc (C4) Illed Soils | Surface | ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) orphic Position (D2) Neutral Test (D5) | | | |
| X Saturation Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation Sparsely Field Obser Surface Water Table Saturation P (includes ca | Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (A2) Inter Table (A2) Inter Table (B2) Inter Table (B2) Inter Present? Inter Table (A2) Inter Table (B2) Inter Deposits (B2) Inter Present? Inter Present. Inter Present. Inter Present. Inter Present. Inter Present. Inter Present | nagery (B7) Surface (B8 S X S X | Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or N Other (Exp | ned Lea una (B1: tic Plants Sulfide C hizosphof Reduc n Reduc Surface Well Data lain in R Depth (in Depth (in | s (B14) odor (C1) eres on L ed Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ nches): _ |) Living Ro (C4) Illed Soils 2 14 0 | Surface Draina Dry-Si Crayfi Sots (C3) Satura Stunte S (C6) X Geom X FAC-N | ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) orphic Position (D2) Neutral Test (D5) | | | |
| X Saturation Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation Sparsely Field Obser Surface Wat Water Table Saturation P (includes cal Describe Re | Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (A2) Inter Table (B1) Inter Table (B2) Inter Deposits (B2) Inter Or Crust (B4) Inter Or Cru | nagery (B7) Surface (B8 S X S X | Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or N Other (Exp | ned Lea una (B1: tic Plants Sulfide C hizosphof Reduc n Reduc Surface Well Data lain in R Depth (in Depth (in | s (B14) odor (C1) eres on L ed Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ nches): _ |) Living Ro (C4) Illed Soils 2 14 0 | Surface Draina Dry-Si Crayfi Sots (C3) Satura Stunte S (C6) X Geom X FAC-N | ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) orphic Position (D2) Neutral Test (D5) | | | |
| X Saturation Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation Sparsely Field Obser Surface Wat Water Table Saturation P (includes can Describe Re | Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (A2) Inter Table (A2) Inter Table (B2) Inter Deposits (B2) Inter Orust (B4) Inter Orust (B4 | nagery (B7) Surface (B8) S X S X S X gauge, mor | Water-Stai Aquatic Fa True Aqua X Hydrogen S Oxidized R Presence of Recent Iron Thin Muck Gauge or N Other (Exp No | ned Lea una (B1: tic Plants Sulfide C thizosphof Reduct on Reduct Surface Well Data lain in R Depth (in Depth (in | s (B14) odor (C1) eres on L eed Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ previous |) Living Rc (C4) Illed Soils 2 14 0 s inspect | Surface Draina Dry-Si Crayfi Satura Stunte S (C6) X Geom X FAC-N Wetland Hydrolog ions), if available: | ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) orphic Position (D2) Neutral Test (D5) | | | |
| X Saturation Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation Sparsely Field Obser Surface Wat Water Table Saturation P (includes can Describe Re | Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (A2) Inter Table (B1) Inter Table (B2) Inter Deposits (B2) Inter Or Crust (B4) Inter Or Cru | nagery (B7) Surface (B8) S X S X S X gauge, mor | Water-Stai Aquatic Fa True Aqua X Hydrogen S Oxidized R Presence of Recent Iron Thin Muck Gauge or N Other (Exp No | ned Lea una (B1: tic Plants Sulfide C thizosphof Reduct on Reduct Surface Well Data lain in R Depth (in Depth (in | s (B14) odor (C1) eres on L eed Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ previous |) Living Rc (C4) Illed Soils 2 14 0 s inspect | Surface Draina Dry-Si Crayfi Satura Stunte S (C6) X Geom X FAC-N Wetland Hydrolog ions), if available: | ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) orphic Position (D2) Neutral Test (D5) | | | |

| Project/Site: Chicago O'Hare International Airport | (ORD) | City/Cour | ity: Chicago | o/DuPage | Sar | npling Date: | 10/3/ | /2019 |
|---|-------------------|---------------|---------------|---|--------------|---------------------------------------|---------------------|----------|
| Applicant/Owner: City of Chicago | | | | State:I | L Sar | SW19 | 9-146 UPL | |
| Investigator(s): Brauna Hartzell, Conor Makepeace | , Mead & Hunt, In | c. Section, T | ownship, Ra | inge: Section 12, | T40N, R11 | E | | |
| Landform (hillside, terrace, etc.): shoulder | | | ocal relief (| concave, convex, r | none): conv | ex | | |
| Slope (%): 10 Lat: 41.97124266 | | | • | 3 | - | | | |
| Soil Map Unit Name: 805B - Orthents, clayey, und | ulating (Predomin | | | | | | | |
| Are climatic / hydrologic conditions on the site typi | | | | No X (If I | | | | |
| Are Vegetation, Soil, or Hydrology | | | | | | | lo | |
| Are Vegetation, Soil, or Hydrology | | | | plain any answers | | · · · · · · · · · · · · · · · · · · · | | _ |
| SUMMARY OF FINDINGS – Attach site | | | | | | | atures | s, etc. |
| Hydrophytic Vegetation Present? Yes | No X | Is the | Sampled A | rea | | | | |
| Hydric Soil Present? Yes | | | a Wetland | | N | o X | | |
| Wetland Hydrology Present? Yes X | No | | | • | | | | |
| Remarks: | <u> </u> | | | | | | | |
| Wetter than normal. Area mown occassionaly. St | ockpile, grading | | | | | | | |
| VEGETATION – Use scientific names of | nlante | | | | | | | |
| VEGETATION – Ose scientific flames of | Absolute | Dominant | Indicator | | | | | |
| Tree Stratum (Plot size:) | % Cover | Species? | Status | Dominance Te | st workshe | et: | | |
| 1 | | | | Number of Dom Are OBL, FACV | | es That | 1 | (A) |
| 3. | | | | Total Number of Across All Strat | of Dominant | Species | 2 | (B) |
| 4 5. | | | | | | That | | _(D) |
| | | Total Cover | | Percent of Dom Are OBL, FACV | | | 0.0% | _(A/B) |
| Sapling/Shrub Stratum (Plot size:1. | ' | | | Prevalence Inc | lex worksh | et. | | |
| 2. | | | | Total % Co | | Multipl | v bv: | |
| 3. | | | | OBL species | 0 | x 1 = | 0 | _ |
| 4. | | | , | FACW species | 0 | x 2 = | 0 | _ |
| 5. | | | | FAC species | 20 | x 3 = | 60 | _ |
| | = | Total Cover | | FACU species | 8 | x 4 = | 32 | _ |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 72 | | 360 | - |
| Securigera varia | 70 | Yes | UPL | Column Totals: | | (A) | 452 | _(B) |
| Poa pratensis Taraxacum officinale | | Yes No | FAC FACU | Prevalence I | ndex = B/A | = 4.5 | 2 | - |
| Plantago lanceolata | | No | FACU | Hydrophytic V | egetation In | dicators: | | |
| 5. Leucanthemum vulgare | | No | UPL | | _ | ophytic Vege | tation | |
| 6. | | | | | nce Test is | | | |
| 7. | | | | 3 - Prevale | nce Index is | ≤3.0 ¹ | | |
| 8. | | | | l | | tations¹ (Pro | | |
| 9 | | | | | | n a separate | - | |
| 10 | | | | Problemation | c Hydrophyt | c Vegetation | ¹ (Expla | ain) |
| Woody Vine Stratum (Plot size: | | Total Cover | | ¹ Indicators of hy be present, unle | | | | must |
| 1. | | | | Hydrophytic | | | | |
| 2 | | Total Cover | | Vegetation | | | | |
| | | | | Present? | Yes | No X | | |

SOIL Sampling Point: SW19-146 UPL

| Profile Des Depth | cription: (Describe to Matrix | to the dep | | ıment tl x Featur | | tor or c | onfirm the absence of | of indicators.) | | | |
|-------------------|-------------------------------|-------------|------------------------|-----------------------------|---|------------------|--|---|--|--|--|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | | |
| 0-4 | 10YR 2/1 | 100 | Color (molet) | -70 | -71 | | Loamy/Clayey | clay loam | | | |
| 4-8 | 10YR 4/3 | 100 | | | | | Loamy/Clayey | clay loam | | | |
| | - | | | | | | | | | | |
| 8-14 | 10YR 4/3 | 100 | | | | | Sandy | coarse sand with small pebbles | | | |
| • | | | | | | | | and 1-2" gravel | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | Concentration, D=Depl | etion, RM | =Reduced Matrix, N | 1S=Mas | ked Sand | Grains | | : PL=Pore Lining, M=Matrix. | | | |
| - | Indicators: | | 0 1 0 | | . (0.1) | | | s for Problematic Hydric Soils ³ : | | | |
| Histosol | | | Sandy Gle | | rix (S4) | | Coast Prairie Redox (A16) | | | | |
| | pipedon (A2) | | Sandy Red | | • | | | Manganese Masses (F12) | | | |
| | listic (A3) | | Stripped M Dark Surfa | , |)) | | | Parent Material (F21) | | | |
| | en Sulfide (A4) | | Loamy Mu | ` , | oral (E1) | | Very Shallow Dark Surface (F22) Other (Explain in Remarks) | | | | |
| | d Layers (A5) uck (A10) | | Loamy Gle | - | | | Other | (Explain in Remarks) | | | |
| | d Below Dark Surface | (A11) | Depleted N | • | , , | | | | | | |
| | ark Surface (A12) | (Δ11) | Redox Dar | | | | ³ Indicator | s of hydrophytic vegetation and | | | |
| | Mucky Mineral (S1) | | Depleted D | | • • | | | nd hydrology must be present, | | | |
| | ucky Peat or Peat (S3 |) | Redox Dep | | | | | s disturbed or problematic. | | | |
| | Layer (if observed): | , | <u> </u> | | , | T | | · | | | |
| Type: | Layer (II observed). | | | | | | | | | | |
| Depth (i | inches). | | | | | | Hydric Soil Present | ? Yes No X | | | |
| • ` | | | | | | ļ | , | · | | | |
| Remarks: | are not present. Does | not moot | bydria apila aritoria | | | | | | | | |
| riyunc sons | are not present. Does | ilot illeei | Tryunc sons criteria | - | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| HYDROLO | OGY | | | | | | | | | | |
| | /drology Indicators: | | | | | | | | | | |
| - | icators (minimum of o | ne is reau | ired: check all that a | (vlage | | | Secondar | y Indicators (minimum of two required) | | | |
| - | Water (A1) | | Water-Stai | | ves (B9) | | | ce Soil Cracks (B6) | | | |
| | ater Table (A2) | | Aquatic Fa | | ` , | | Drain | age Patterns (B10) | | | |
| X Saturati | , , | | True Aqua | | - | | | Season Water Table (C2) | | | |
| Water N | Marks (B1) | | Hydrogen : | Sulfide (| Odor (C1) | | Crayf | ish Burrows (C8) | | | |
| Sedime | nt Deposits (B2) | | Oxidized R | hizosph | eres on L | iving R | oots (C3) Satur | ation Visible on Aerial Imagery (C9) | | | |
| Drift De | posits (B3) | | Presence of | of Reduc | ed Iron (| C4) | Stunt | ed or Stressed Plants (D1) | | | |
| Algal Ma | at or Crust (B4) | | Recent Iron | n Reduc | tion in Til | led Soil | s (C6) Geon | norphic Position (D2) | | | |
| Iron De | posits (B5) | | Thin Muck | Surface | (C7) | | FAC- | Neutral Test (D5) | | | |
| Inundati | ion Visible on Aerial Ir | nagery (B | 7) Gauge or \ | Vell Dat | a (D9) | | | | | | |
| Sparsel | y Vegetated Concave | Surface (| B8)Other (Exp | lain in R | emarks) | | | | | | |
| Field Obse | rvations: | | | | | | | | | | |
| Surface Wa | ter Present? Ye | s | No X | Depth (i | nches): _ | | | | | | |
| Water Table | | s X | | | nches): | | | | | | |
| Saturation F | | s <u>X</u> | No | Depth (i | nches): | 0 | Wetland Hydrolog | Wetland Hydrology Present? Yes X No | | | |
| | apillary fringe) | | | | | | <u> </u> | | | | |
| Describe Re | ecorded Data (stream | gauge, m | onitoring well, aeria | l photos | previous | inspec | tions), if available: | | | | |
| Domestics | | | | | | | | | | | |
| Remarks: | drology is present. He | avv rain o | ver 2-3 days prior | | | | | | | | |
| . v Guaria riye | a. o.ogy to prodefit. The | ary rain 0 | 10. 2 0 days prior. | | | | | | | | |
| | | | | | | | | | | | |

| Project/Site: Chicago O'Hare International Airport (ORD |) | City/Cou | nty: Chicago | o/DuPage | Sampling Da | ate: 10/3/2019 |
|--|---------------------|-------------------|---------------------|-----------------------------------|--------------------------------|------------------------------|
| Applicant/Owner: City of Chicago | | - | State: IL | Sampling Po | oint: SW 19-146 WE | |
| Investigator(s): Brauna Hartzell, Conor Makepeace, Mea | d & Hunt, Ind | c. Section, T | ownship, Ra | nge: Section 12, | Г40N, R11E | |
| Landform (hillside, terrace, etc.): swale | | | | concave, convex, no | | |
| Slope (%): <1% Lat: 41.97128362 | | | 87.93574797 | | Datum: WGS | |
| Soil Map Unit Name: 805B - Orthents, clayey, undulating | a (Predomin | | | | | |
| | | | | | - | (a.) |
| Are climatic / hydrologic conditions on the site typical for | | - | Yes | | o, explain in Remarl | |
| Are Vegetation, SoilX, or Hydrologysi | | | | | | No X |
| Are Vegetation, Soil, or Hydrologyna | aturally probl | lematic? (| If needed, ex | plain any answers i | n Remarks.) | |
| SUMMARY OF FINDINGS – Attach site ma | p showin | g samplin | g point lo | cations, transe | ects, important | features, etc. |
| Hydrophytic Vegetation Present? Yes X No | | Is the | Sampled A | rea | | |
| Hydric Soil Present? Yes X No | | withir | n a Wetland | ? Yes_ | X No | |
| Wetland Hydrology Present? Yes X No | | | | | | |
| Remarks: | | | | | | |
| Wetter than normal thru September; heavy rains 2-3 da | ays prior. Are | ea is mown o | ccassionally | Constructed swale | between 2 stockpi | les. |
| | | | | | | |
| VEGETATION – Use scientific names of plan | ıts. | | | | | |
| <u>Tree Stratum</u> (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Tes | t workshoot: | |
| 1. (Flot size) | 70 COVEI | Species: | Status | | | |
| 2. | | | | Are OBL, FACW | nant Species That , or FAC: | 2 (A) |
| 3. | | | | | Dominant Species | `` ` ´ |
| 4. | | | | Across All Strata | • | 2 (B) |
| 5 | | | | Percent of Domir | nant Species That | |
| | = | Total Cover | | Are OBL, FACW | , or FAC: | 100.0% (A/B) |
| Sapling/Shrub Stratum (Plot size:) | | | | | | |
| 1 | | | | Prevalence Inde | | W 1 1 |
| 2. 3. | | | | Total % Cov OBL species | 7er of: ML 35 x 1 = | ıltiply by: |
| 3 4. | | | | FACW species | | 35 100 |
| 5. | | | | FAC species | 0 x3= | 0 |
| | | Total Cover | | FACU species | 0 x 4 = | 0 |
| Herb Stratum (Plot size: 5ft) | | | | UPL species | 0 x 5 = | 0 |
| Juncus dudleyi | 40 | Yes | FACW | Column Totals: | 85 (A) | 135 (B) |
| 2. Eleocharis obtusa | 30 | Yes | OBL | Prevalence Inc | dex = B/A = | 1.59 |
| 3. Phragmites australis | 10 | No | FACW | | | |
| 4. Lythrum salicaria | 5 | No | OBL | | getation Indicators | |
| 5 | | | | | st for Hydrophytic V | egetation/ |
| 6 7. | | | | X 2 - Dominano X 3 - Prevaleno | | |
| 8. | | | | | gical Adaptations¹ (| Provide supporting |
| | | | | | marks or on a sepa | |
| 10. | | | | Problematic | Hydrophytic Vegeta | ation ¹ (Explain) |
| | 85 = | Total Cover | | <u> </u> | dric soil and wetland | |
| Woody Vine Stratum (Plot size:) | | | | • | ss disturbed or prob | |
| 1. | | | | Hydrophytic | | |
| 2 | | | | Vegetation | | |
| | = | Total Cover | | Present? | Yes <u>X</u> No | |
| Remarks: (Include photo numbers here or on a separa | , | hytic vegetat | ion is nreser | ıt | | |

SOIL Sampling Point: SW 19-146 WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth | Matrix | | Redo | x Featur | es | | | | | | |
|-------------------------|------------------------|---------------|----------------------|-----------------------------------|-------------------|------------------|-----------------------------|-------------------------|----------------|-----------------|----------------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Text | ure | | Remarks | |
| 0-4 | 10YR 2/1 | 100 | | | | | Loamy/ | Clayey | | clay loam | |
| 4-6 | 10YR 2/1 | 97 | 7.5YR 4/6 | 3 | | M | Loamy/ | Clayey | Promine | nt redox conc | entrations |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Dep | oletion, RM= | Reduced Matrix, N | /IS=Masl | ked Sand | Grains | | ² Location: | PL=Pore Li | ining, M=Matr | ix. |
| Hydric Soil | ndicators: | | | | | | | Indicator | s for Proble | matic Hydric | Soils ³ : |
| Histosol | (A1) | | Sandy Gle | yed Matı | rix (S4) | | | Coas | t Prairie Red | ox (A16) | |
| Histic Ep | ipedon (A2) | | Sandy Red | dox (S5) | | | Iron-Manganese Masses (F12) | | | | |
| Black His | stic (A3) | | Stripped M | latrix (S6 | 6) | | | Red F | Parent Mater | ial (F21) | |
| Hydroge | n Sulfide (A4) | | Dark Surfa | ice (S7) | | | | Very | Shallow Dark | k Surface (F2 | 2) |
| Stratified | Layers (A5) | | Loamy Mu | cky Mine | eral (F1) | | | X Other | (Explain in f | Remarks) | |
| 2 cm Mu | ck (A10) | | Loamy Gle | yed Mat | rix (F2) | | | | | | |
| Depleted | Below Dark Surfac | e (A11) | Depleted N | /latrix (F | 3) | | | | | | |
| Thick Da | rk Surface (A12) | | Redox Dar | k Surfac | e (F6) | | | ³ Indicators | s of hydroph | ytic vegetatior | n and |
| Sandy M | ucky Mineral (S1) | | Depleted [| Dark Sur | face (F7) | | | wetla | nd hydrology | must be pres | sent, |
| 5 cm Mu | cky Peat or Peat (S | 3) | Redox Dep | pressions | s (F8) | | | unles | s disturbed o | or problematic | |
| Restrictive I | _ayer (if observed) | | | | | | | | | | |
| Type: | compacted | gravel | | | | | | | | | |
| Depth (in | iches): | 6 | | | | | Hydric So | il Present | ? | Yes X | No |
| Remarks: | | | | | | | | | | | |
| Remarks: Re | estrictive layer of co | mpacted gra | vel is present. Wh | ile indica | ator criter | ia for F6 | 3 is not met, | hydrophyt | ic vegetation | and hydrolog | y are met. |
| Soil is hydric | | | | | | | | | - | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| HYDROLO | GY | | | | | | | | | | |
| Wetland Hy | drology Indicators: | ı | | | | | | | | | |
| _ | cators (minimum of | | red: check all that: | annly) | | | | Secondar | v Indicators i | (minimum of t | wo required) |
| X Surface | | ono io roquii | Water-Sta | | ves (B9) | | | | ce Soil Cracl | • | wo roquirou <u>r</u> |
| | ter Table (A2) | | Aquatic Fa | | ` , | | | | age Patterns | • • | |
| X Saturation | | | True Aqua | , | | | | eason Wate | | | |
| | arks (B1) | | Hydrogen | | | | | ish Burrows | | | |
| | t Deposits (B2) | | | Oxidized Rhizospheres on Living R | | | | | ation Visible | on Aerial Ima | gery (C9) |
| Drift Dep | osits (B3) | | Presence | Presence of Reduced Iron (C4) | | | | | | ed Plants (D1 | |
| Algal Ma | t or Crust (B4) | | Recent Iro | n Reduc | tion in Til | led Soil | s (C6) | X Geom | norphic Posit | ion (D2) | |
| Iron Dep | osits (B5) | | Thin Muck | Thin Muck Surface (C7) | | | | | Neutral Test | (D5) | |
| Inundation | on Visible on Aerial | lmagery (B7 | Gauge or V | Well Dat | a (D9) | | | <u> </u> | | | |
| Sparsely | Vegetated Concave | e Surface (E | 38) Other (Exp | lain in R | emarks) | | | | | | |
| Field Obser | vations: | | | | | | | | | | |
| Surface Wat | er Present? Ye | es X | No | Depth (ii | nches): | 2 | | | | | |
| Water Table | | es X | | Depth (ii | · - | 0 | | | | | |
| Saturation P | resent? Ye | es X | No | Depth (ii | nches): | 0 | Wetland | d Hydrolog | y Present? | Yes X | No |
| (includes cap | oillary fringe) | | | | | | | | | | |
| Describe Rec | corded Data (stream | n gauge, mo | nitoring well, aeria | l photos, | , previous | inspec | tions), if ava | ailable: | | | |
| Remarks: | | | | | | | | | | | |
| Wetland hyd | rology is present an | d indicated. | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |